Color Laser Printer

User's Guide

September 2014

Machine type(s):

5027

Model(s):

630 and its equivalent model

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Safety information

Connect the power cord directly to an appropriately rated and properly grounded electrical outlet that is near the product and easily accessible.

CAUTION—POTENTIAL INJURY: Do not use this product with extension cords, multioutlet power strips, multioutlet extenders, or other types of surge or UPS devices. The power rating capacity of these types of accessories can be easily overloaded by a laser printer and may result in poor printer performance, property damage, or potential fire.

Do not place or use this product near water or wet locations.

CAUTION—POTENTIAL INJURY: This product uses a laser. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION—POTENTIAL INJURY: The lithium battery in this product is not intended to be replaced. There is a danger of explosion if a lithium battery is incorrectly replaced. Do not recharge, disassemble, or incinerate a lithium battery. Discard used lithium batteries according to the manufacturer's instructions and local regulations.

This product uses a printing process that heats the print media, and the heat may cause the media to release emissions. You must understand the section in your operating instructions that discusses the guidelines for selecting print media to avoid the possibility of harmful emissions.

CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

CAUTION—POTENTIAL INJURY: The printer weight is greater than 18 kg (40 lb) and requires two or more trained personnel to lift it safely.

CAUTION—POTENTIAL INJURY: To reduce the risk of equipment instability, load each tray separately. Keep all other trays closed until needed.

CAUTION—TIPPING HAZARD: Floor-mounted configurations require additional furniture for stability. You must use either a printer stand or printer base if you are using multiple input options. If you purchased a printer with a similar configuration, then you may need additional furniture. For more information, contact the place where you purchased the printer.

CAUTION—POTENTIAL INJURY: Before moving the printer, follow these guidelines to avoid personal injury or printer damage:

- Turn the printer off using the power switch, and then unplug the power cord from the electrical outlet.
- Disconnect all cords and cables from the printer before moving it.
- Lift the printer off the optional tray, and then set it aside instead of trying to lift the tray and printer at the same time.

  Note: Use the handholds located on both sides of the printer to lift it.

Use only the power cord provided with this product or the manufacturer's authorized replacement.

CAUTION—SHOCK HAZARD: If you are accessing the controller board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the electrical outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

CAUTION—SHOCK HAZARD: Make sure that all external connections (such as Ethernet and telephone system connections) are properly installed in their marked plug-in ports.

This product is designed, tested, and approved to meet strict global safety standards with the use of specific manufacturer's components. The safety features of some parts may not always be obvious. The manufacturer is not responsible for the use of other replacement parts.

CAUTION—POTENTIAL INJURY: Do not cut, twist, bind, crush, or place heavy objects on the power cord. Do not subject the power cord to abrasion or stress. Do not pinch the power cord between objects such as furniture and walls. If any of these things happen, a risk of fire or electrical shock results. Inspect the power cord regularly for signs of such problems. Remove the power cord from the electrical outlet before inspecting it.

Refer service or repairs, other than those described in the user documentation, to a service representative.

CAUTION—SHOCK HAZARD: Do not set up this product or make any electrical or cabling connections, such as the fax feature, power cord, or telephone, during a lightning storm.

CAUTION—SHOCK HAZARD: To avoid the risk of electrical shock when cleaning the exterior of the printer, unplug the power cord from the electrical outlet and disconnect all cables from the printer before proceeding.

SAVE THESE INSTRUCTIONS.

Learning about the printer

Selecting a location for the printer

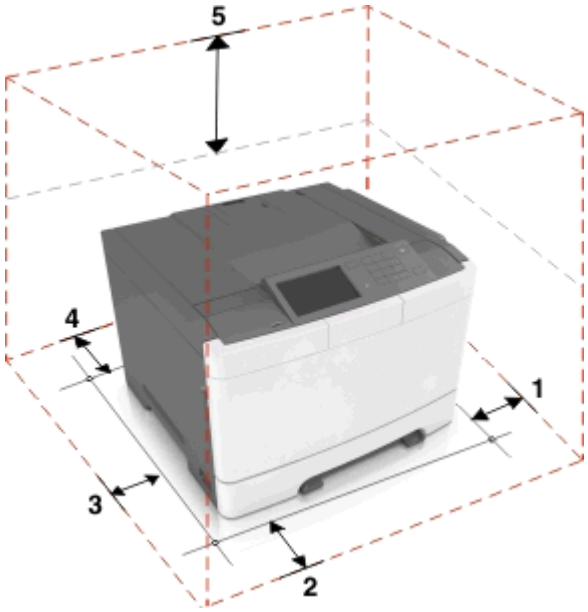
CAUTION—POTENTIAL INJURY: The printer weight is greater than 18 kg (40 lb) and requires two or more trained personnel to lift it safely.

When selecting a location for the printer, leave enough room to open trays, covers, and doors. If you plan to install any options, then leave enough room for them also. It is important to:

- Set up the printer near a properly grounded and easily accessible electrical outlet.
- Make sure airflow in the room meets the latest revision of the ASHRAE 62 standard or the CEN Technical Committee 156 standard.
- Provide a flat, sturdy, and stable surface.
- Keep the printer:
  - Clean, dry, and free of dust.
  - Away from stray staples and paper clips.
  - Away from the direct airflow of air conditioners, heaters, or ventilators.
  - Free from direct sunlight and humidity extremes.
- Observe the recommended temperatures and avoid fluctuations:

Ambient temperature	15.6 to 32.2°C (60 to 90°F)
Storage temperature	1 to 35°C (34 to 95°F)

- Allow the following recommended amount of space around the printer for proper ventilation:

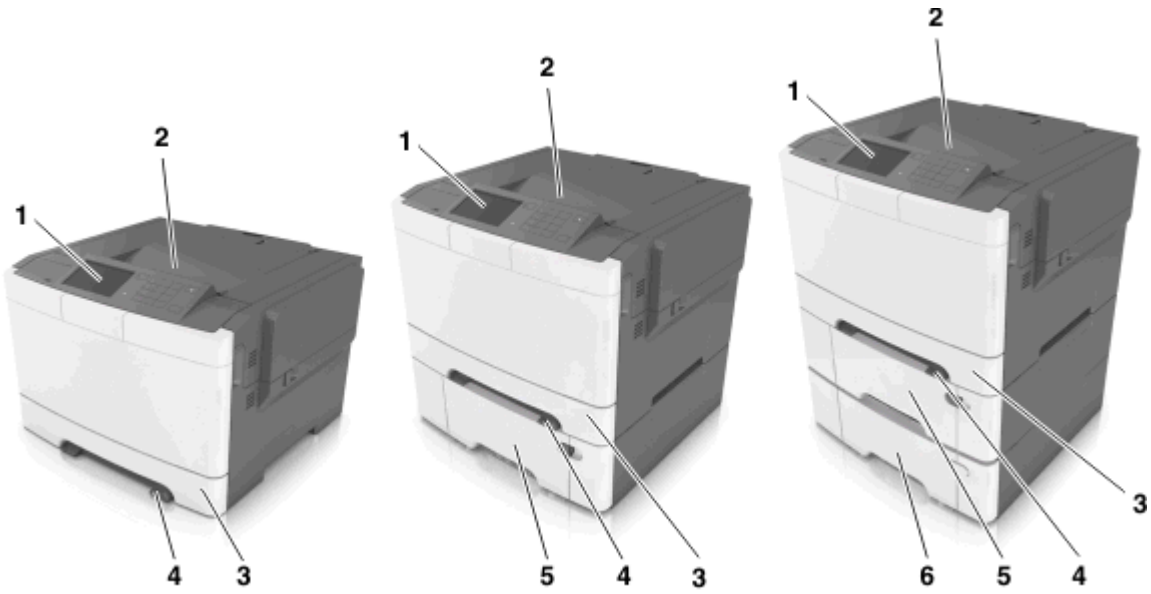


1	Right side	102 mm (4 in.)
2	Front	508 mm (20 in.)
3	Left side	152 mm (6 in.)

4	Rear	102 mm (4 in.)
5	Top	254 mm (10 in.)

Printer configurations

CAUTION—TIPPING HAZARD: Floor-mounted configurations require additional furniture for stability. You must use either a printer stand or printer base if you are using multiple input options. If you purchased a printer with a similar configuration, then you may need additional furniture. For more information, contact the place where you purchased the printer.



1	Printer control panel
2	Standard bin
3	250-sheet tray (Tray 1)
4	Manual feeder
5	Optional 650-sheet duo tray with integrated multipurpose feeder (Tray 2) **Note:** This tray is standard on the CS410dtn and CS510dte models.
6	Optional 550-sheet tray (Tray 3)

Using the Embedded Web Server

Note: This feature is available only in network printers or printers connected to print servers.

If the printer is installed on a network, then you can use the Embedded Web Server to do the following:

- View the virtual display of the printer control panel.
- Check the status of the printer supplies.
- Configure supply notifications.
- Configure printer settings.

- Configure network settings.
- View reports.

To access the Embedded Web Server for your printer:

1. Obtain the printer IP address:
   - From the TCP/IP section in the Network/Ports menu
   - By printing a network setup page or menu settings page, and then finding the TCP/IP section

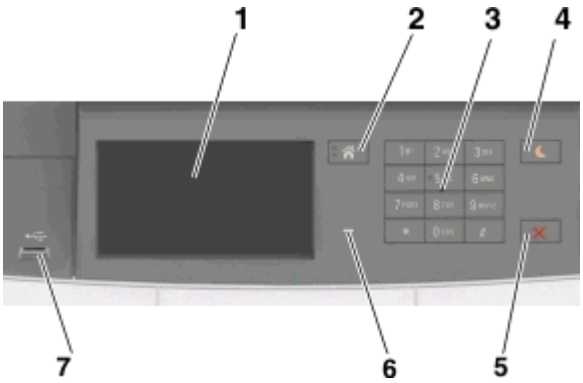
     Notes:

     - An IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
     - If you are using a proxy server, then temporarily disable it to load the Web page correctly.
2. Open a Web browser, and then type the printer IP address in the address field.
3. Press **Enter**.

   The Embedded Web Server page appears.

Understanding the printer control panel

Using the printer control panel



	Use the	To
1	Display	• Show the status of the printer. • Set up and operate the printer.
2	Home button	Go to the home screen.
3	Keypad	Enter numbers, letters, or symbols on the printer.
4	Sleep button	Enable Sleep mode or Hibernate mode. **Notes:** • Pressing any hard button, touching the printer control panel, attaching a device to a USB port, sending a print job, or performing a power-on reset with the main power switch wakes the printer from Sleep mode. • Pressing the Sleep button or the power switch causes the printer to wake from Hibernate Mode.
5	Stop or Cancel button	Stop all printer activity.
6	Indicator light	Check the status of the printer.
7	USB port	Connect a USB a flash drive to the printer. **Note:** Only the front USB port supports flash drives.

Understanding the colors of the Sleep button and indicator lights

The colors of the Sleep button and indicator lights on the printer control panel signify a certain printer status or condition.

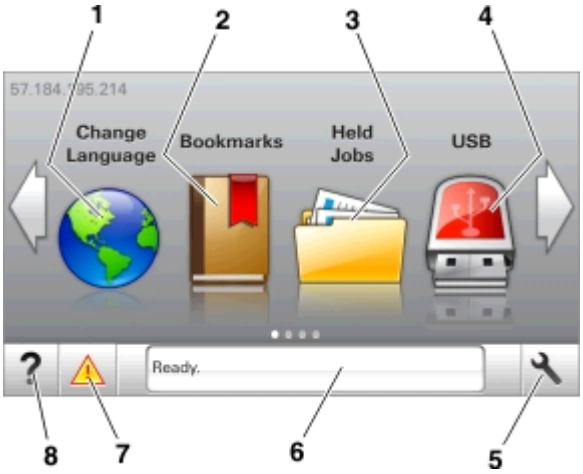
Indicator light	Printer status
Off	The printer is off or in Hibernate mode.
Blinking green	The printer is warming up, processing data, or printing.
Solid green	The printer is on, but idle.
Blinking red	The printer requires user intervention.

Sleep button light	Printer status
Off	The printer is off, idle or in Ready state.
Solid amber	The printer is in Sleep mode.
Blinking amber	The printer is entering or waking from Hibernate mode.
Blinking amber for 0.1 second, then goes completely off for 1.9 seconds in a slow, pulsing pattern	The printer is in Hibernate mode.

Understanding the home screen

When the printer is turned on, the display shows a basic screen, referred to as the home screen. Use the home screen buttons and icons to initiate an action.

Note: Your home screen may vary depending on your home screen customization settings, administrative setup, and active embedded solutions.



Touch		To
1	Change Language	Change the primary language of the printer.
2	Bookmarks	Create, organize, and save a set of bookmarks (URLs) into a tree view of folders and file links. **Note:** The tree view does not include bookmarks created within Forms and Favorites, and the ones in the tree are not usable in Forms and Favorites.
3	Held Jobs	Display all current held jobs.

Touch		To
4	USB	View, select, or print photos and documents from a flash drive. **Note:** This icon appears only when you return to the home screen while a memory card or flash drive is connected to the printer.
5	Menus	Access printer menus. **Note:** These menus are available only when the printer is in ready state.
6	Status message bar	• Show the current printer status such as **Ready** or **Busy**. • Show the status of printer supplies. • Show intervention messages and the instructions on how to clear them.
7	Status/Supplies	• Show a printer warning or error message whenever the printer requires intervention to continue processing. • View more information on the printer warning or message, and on how to clear it.
8	Tips	View a context-sensitive help information.

This may also appear on the home screen:

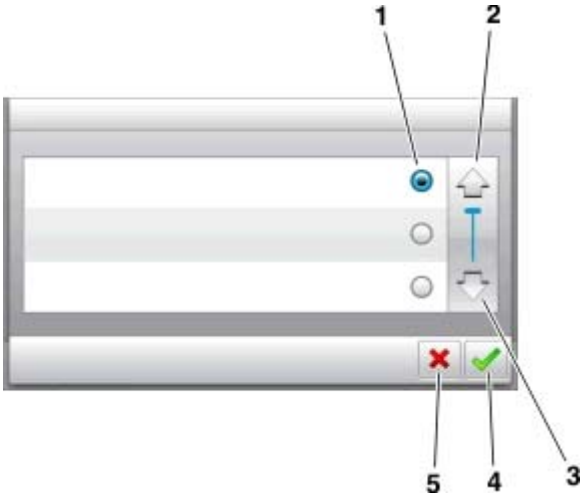
Touch	To
Search Held Jobs	Search current held jobs.
Jobs by user	Access print jobs saved by user.
Profiles and Solutions	Access profiles and solutions.

Features

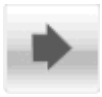
Feature	Description
Attendance message alert	If an attendance message affects a function, then this icon appears and the red indicator light blinks.
Warning	If an error condition occurs, then this icon appears.
Printer IP address Example: **123.123.123.123**	The IP address of your printer is located at the top left corner of the home screen and appears as four sets of numbers separated by periods. You can use the IP address when accessing the Embedded Web Server to view and remotely configure printer settings even when you are not physically near the printer.

Using the touch-screen buttons

Note: Your home screen may vary, depending on your home screen customization settings, administrative setup, and active embedded solutions.



	Touch the	To
1	Radio button	Select or clear an item.
2	Up arrow	Scroll up.
3	Down arrow	Scroll down.
4	Accept button	Save a setting.
5	Cancel button	• Cancel an action or a selection. • Return to the previous screen.

Touch	To
	Return to the home screen.
	Open a context-sensitive Help dialog on the printer control panel.
	Scroll to the left.
	Scroll to the right.

Setting up and using the home screen applications

Notes:

- Your home screen may vary depending on your home screen customization settings, administrative setup, and active embedded applications. Some applications are supported only in some printer models.
- There may be additional solutions and applications available for purchase. For more information, contact the place where you purchased the printer.

Finding the IP address of the computer

For Windows users

1. In the Run dialog box, type **cmd** to open the command prompt.
2. Type **ipconfig**, and then look for the IP address.

For Macintosh users

1. From System Preferences in the Apple menu, select **Network**.
2. Select your connection type, and then click **Advanced** > **TCP/IP**.
3. Look for the IP address.

Finding the IP address of the printer

Note: Make sure your printer is connected to a network or to a print server.

You can find the printer IP address:

- From the top left corner of the printer home screen.
- From the TCP/IP section in the Network/Ports menu.
- By printing a network setup page or menu settings page, and then finding the TCP/IP section.

Note: An IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.

Accessing the Embedded Web Server

The Embedded Web Server is the printer Web page that lets you view and remotely configure printer settings even when you are not physically near the printer.

1. Obtain the printer IP address:
   - From the printer control panel home screen
   - From the TCP/IP section in the Network/Ports menu
   - By printing a network setup page or menu settings page, and then finding the TCP/IP section

   Note: An IP address appears as four sets of numbers separated by periods, such as **123.123.123.123**.
2. Open a Web browser, and then type the printer IP address in the address field.

3 Press **Enter**.

Note: If you are using a proxy server, then temporarily disable it to load the Web page correctly.

Customizing the home screen

1 Open a Web browser, and then type the printer IP address in the address field.

Note: View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.

2 Do one or more of the following:

- Show or hide the icons of basic printer functions.
  a Click **Settings** > **General Settings** > **Home screen customization**.
  b Select the check boxes to specify which icons appear on the home screen.

  Note: If you clear a check box beside an icon, then the icon does not appear on the home screen.
  c Click **Submit**.
- Customize the icon for an application. For more information, see "Finding information about the home screen applications" on page 16 or see the documentation that came with the application.

Activating the home screen applications

Finding information about the home screen applications

Your printer comes with preinstalled home screen applications. Before you can use these applications, you must first activate and set up these applications using the Embedded Web Server. For more information on accessing the Embedded Web Server, see "Accessing the Embedded Web Server" on page 15.

For detailed information on configuring and using the home screen applications, contact the place where you purchased the printer.

Using Background and Idle Screen

Icon	Description
	The application lets you customize the background and idle screen of your printer home screen.

1 From the home screen, navigate to:

Change Background > select background to use

2 Touch .

Setting up Forms and Favorites

Use	To
	Streamline work processes by letting you quickly find and print frequently used online forms directly from the printer home screen. **Note:** The printer must have permission to access the network folder, FTP site, or Web site where the bookmark is stored. From the computer where the bookmark is stored, use sharing, security, and firewall settings to allow the printer at least a *read* access. For help, see the documentation that came with your operating system.

1 Open a Web browser, and then type the printer IP address in the address field.

Note: View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.

2 Click **Settings** > **Apps** > **Apps Management** > **Forms and Favorites**.

3 Click **Add**, and then customize the settings.

Notes:

- See the mouse-over help beside each field for a description of the setting.
- To make sure the location settings of the bookmark are correct, type the correct IP address of the host computer where the bookmark is located. For more information on obtaining the IP address of the host computer, see "Finding the IP address of the computer" on page 15.
- Make sure the printer has access rights to the folder where the bookmark is located.

4 Click **Apply**.

To use the application, touch **Forms and Favorites** on the printer home screen, and then navigate through form categories, or search for forms based on a form number, name, or description.

Understanding Eco-Settings

Icon	Description
	The application lets you easily manage energy consumption, noise, toner, and paper usage settings to help reduce the environmental impact of your printer.

Setting up Remote Operator Panel

This application enables you to interact with the printer control panel even when you are not physically near the network printer. From your computer, you can view the printer status, release held print jobs, create bookmarks, and do other print-related tasks.

1. Open a Web browser, and then type the printer IP address in the address field.

   Note: View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.

2. Click **Settings** > **Remote Operator Panel Settings**.
3. Select the **Enable** check box, and then customize the settings.
4. Click **Submit**.

To use the application, click **Remote Operator Panel** > **Launch VNC Applet**.

Exporting and importing a configuration

You can export configuration settings into a text file, and then import the file to apply the settings to other printers.

1. Open a Web browser, and then type the printer IP address in the address field.

   Note: View the IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.

2. Export or import a configuration file for one or multiple applications.

For one application

a. Navigate to:
   Settings > **Apps** > **Apps Management** > select an application > **Configure**

b. Export or import the configuration file.

   Notes:

   - If a **`JVM Out of Memory`** error occurs, then repeat the export process until the configuration file is saved.
   - If a timeout occurs and a blank screen appears, then refresh the Web browser, and then click **Apply**.

For multiple applications

a. Click **Settings** > **Import/Export**.

b. Export or import a configuration file.

   Note: When importing a configuration file, click **Submit** to complete the process.

Additional printer setup

Installing internal options

CAUTION—SHOCK HAZARD: If you are accessing the controller board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the electrical outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

Note: You can customize your printer connectivity and memory capacity by adding optional cards.

Available internal options

Note: Some options are available only in select printer models.

Memory cards

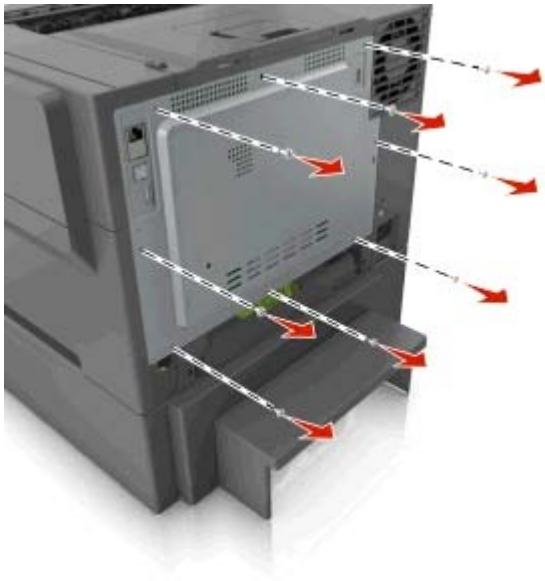
- DDR3 DIMM
- Flash memory
  - Fonts
  - Firmware
    - Forms Barcode
    - Prescribe
    - IPDS
- Hard disk

Accessing the controller board

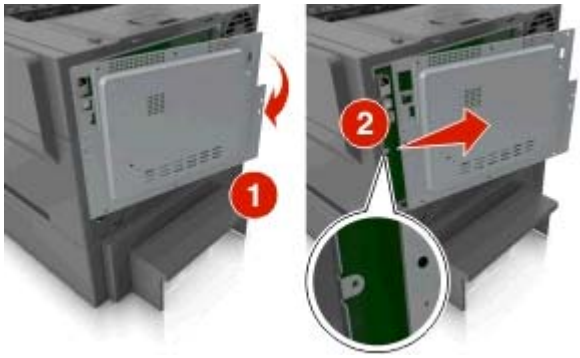
CAUTION—SHOCK HAZARD: If you are accessing the controller board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the electrical outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

Note: This task requires a flat-head screwdriver.

1 At the back of the printer, turn the screws counterclockwise to remove them.

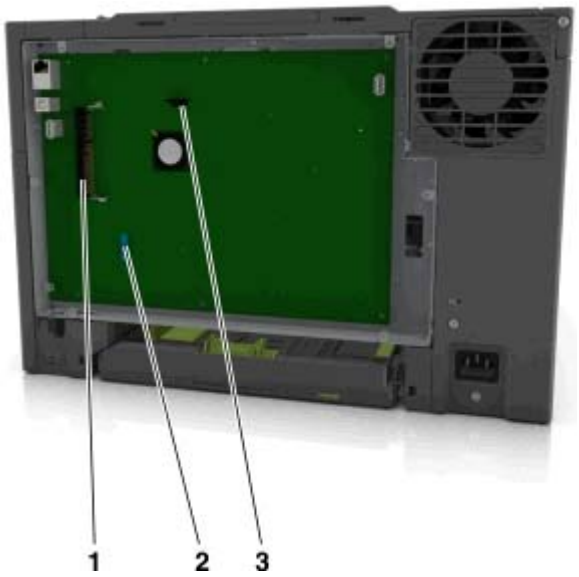


2 Slightly open the controller board access cover, and then shift to the right to remove it.



3 Locate the appropriate connector on the controller board.

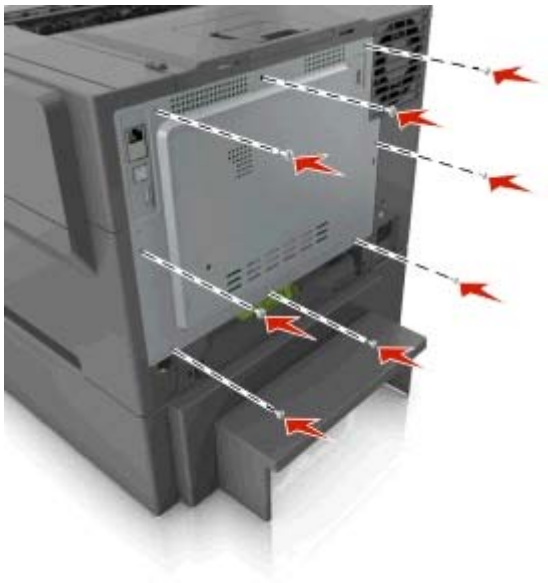
Warning—Potential Damage: Controller board electronic components are easily damaged by static electricity. Touch a metal surface on the printer before touching any controller board electronic components or connectors.



1	Flash memory or font card connector
2	Printer hard disk connector
3	Memory card connector

4 Reattach the cover.

5 Turn the screws clockwise to lock the cover.



Installing a memory card

CAUTION—SHOCK HAZARD: If you are accessing the controller board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the electrical outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

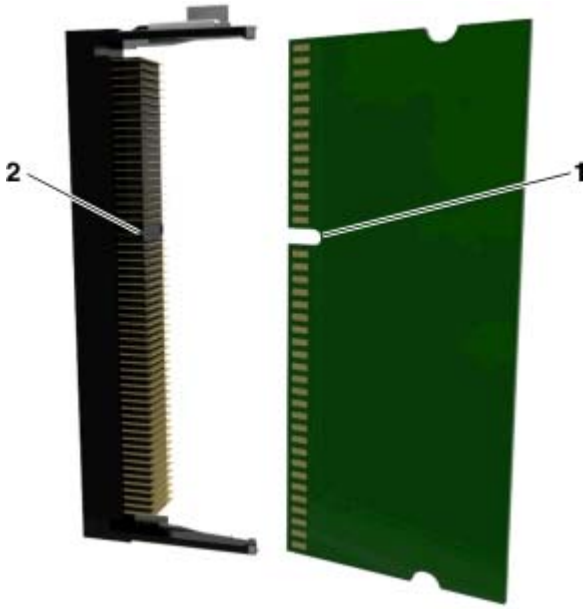
1 Access the controller board.

For more information, see "Accessing the controller board" on page 19.

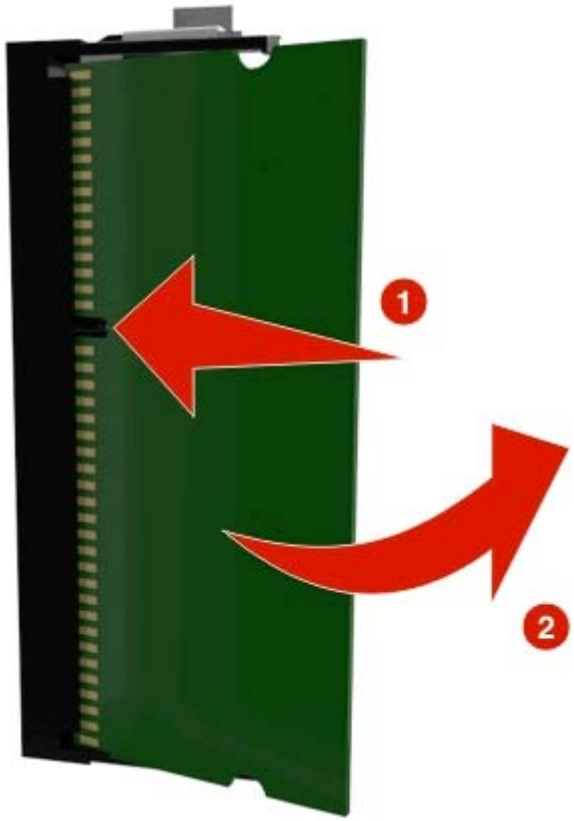
2 Unpack the memory card.

Warning—Potential Damage: Do not touch the connection points along the edge of the card. Doing so may cause damage.

3 Align the notch (1) on the memory card with the ridge (2) on the connector.



4 Push the memory card straight into the connector, and then push the card toward the controller board wall until it *clicks* into place.



5 Close the controller board access cover.

Installing an optional card

CAUTION—SHOCK HAZARD: If you are accessing the controller board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the electrical outlet before continuing. If you have other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

Warning—Potential Damage: Controller board electronic components are easily damaged by static electricity. Touch a metal surface on the printer before touching any controller board electronic components or connectors.

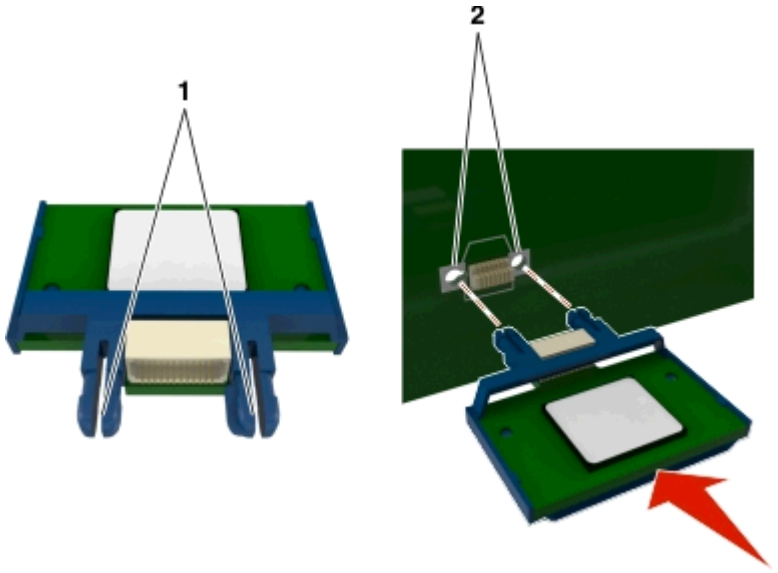
1. Access the controller board.

   For more information, see "Accessing the controller board" on page 19.

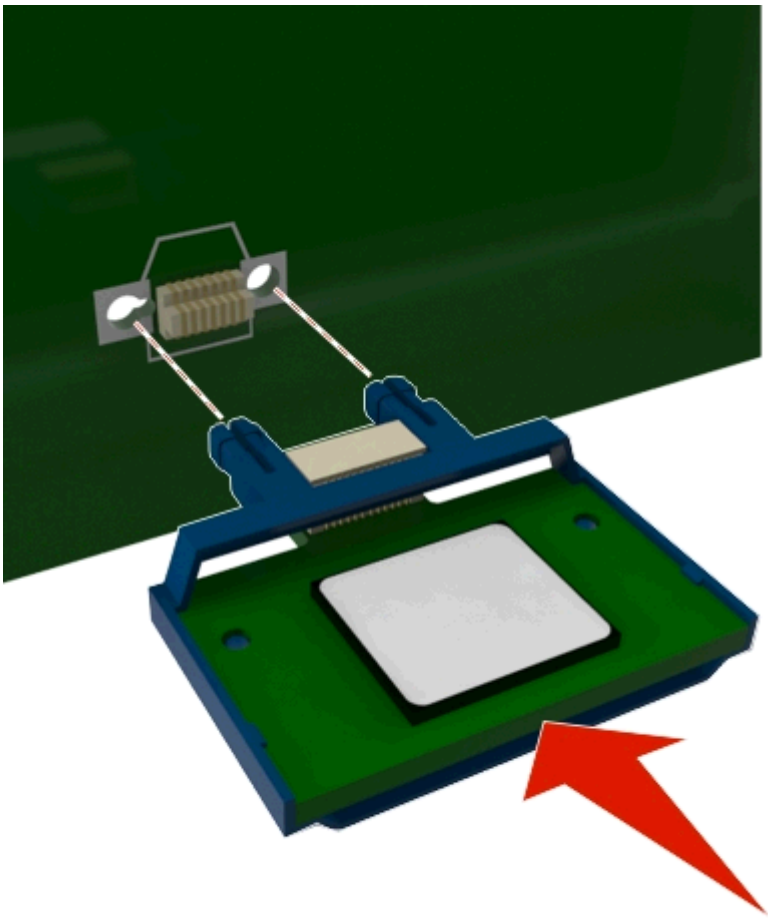
2. Unpack the optional card.

   Warning—Potential Damage: Avoid touching the connection points along the edge of the card.

3. Holding the card by its sides, align the plastic pins (1) on the card with the holes (2) on the controller board.



4 Push the card firmly into place as shown in the illustration.



Warning—Potential Damage: Improper installation of the card may cause damage to the card and the controller board.

Note: The entire length of the connector on the card must touch and be flushed against the controller board.

5 Close the controller board access door.

Note: When the printer software and any hardware options are installed, it may be necessary to manually add the options in the printer driver to make them available for print jobs. For more information, see "Updating available options in the printer driver" on page 32.

Installing a printer hard disk

Note: This task requires a flathead screwdriver.

CAUTION—SHOCK HAZARD: If you are accessing the controller board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the electrical outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

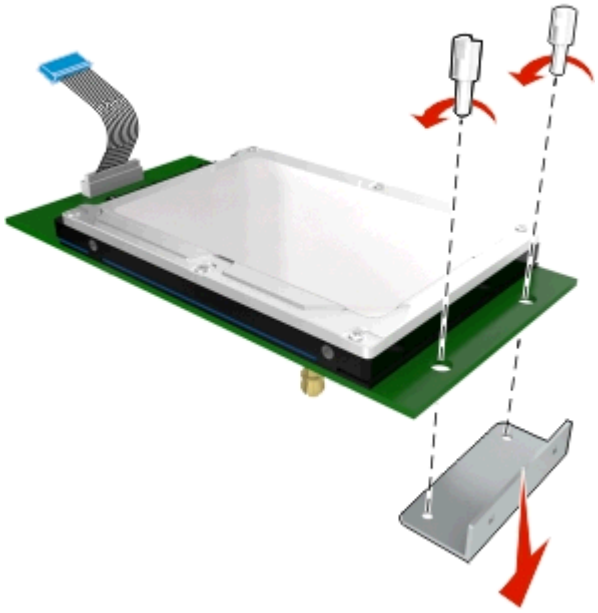
Warning—Potential Damage: Controller board electronic components are easily damaged by static electricity. Touch something metal on the printer before touching any controller board electrical components or connectors.

1. Access the controller board.

   For more information, see "Accessing the controller board" on page 19.

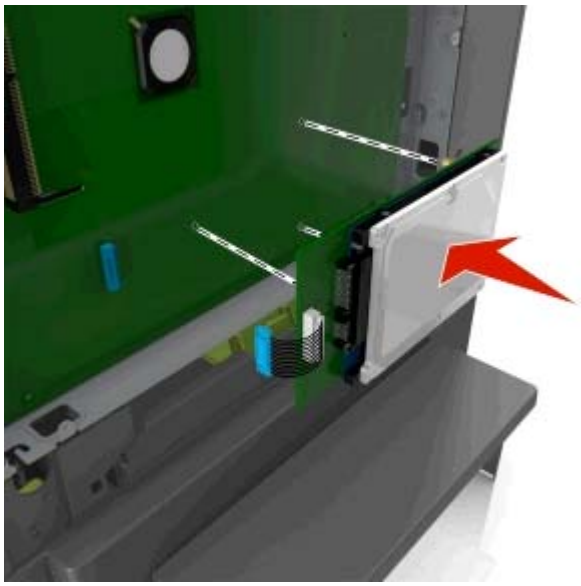
2. Unpack the printer hard disk.

3. Remove the screws attached to the printer hard disk mounting bracket, and then remove the bracket.



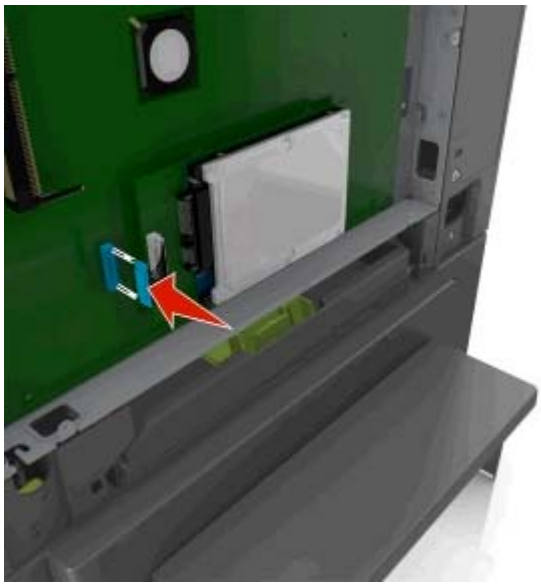
4. Locate the appropriate connector on the controller board.

5 Align the standoffs of the printer hard disk to the holes in the controller board, and then press the printer hard disk down until the standoffs are in place.



6 Insert the plug of the printer hard disk interface cable into the receptacle of the controller board.

Note: The plugs and receptacles are color-coded.



7 Close the controller board access cover.

Note: When the printer software and any hardware options are installed, you may need to manually add the options in the printer driver to make them available for print jobs. For more information, see "Updating available options in the printer driver" on page 32.

Removing a printer hard disk

Note: This task requires a flathead screwdriver.

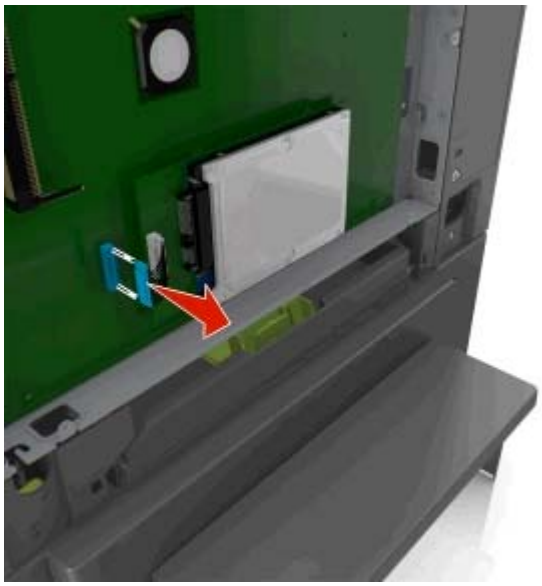
CAUTION—SHOCK HAZARD: If you are accessing the controller board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the electrical outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

Warning—Potential Damage: Controller board electronic components are easily damaged by static electricity. Touch something metal on the printer first before touching any controller board electronic components or connectors.

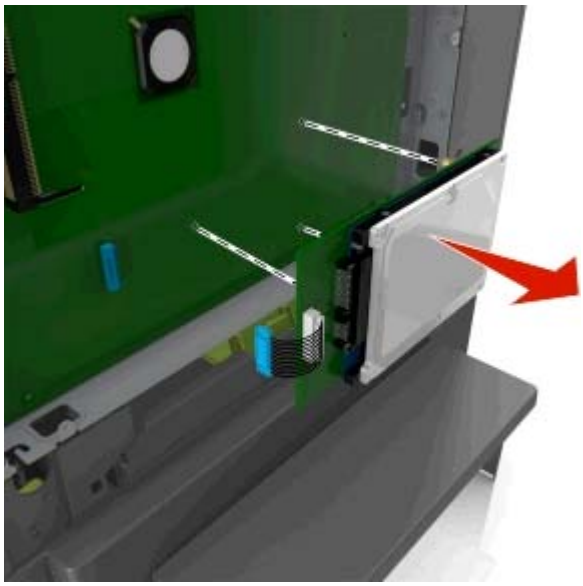
1. Access the controller board.

   For more information, see "Accessing the controller board" on page 19.

2. Unplug the printer hard disk interface cable from the controller board, leaving the cable attached to the printer hard disk. To unplug the cable, squeeze the paddle at the plug of the interface cable to disengage the latch before pulling the cable out.



3. Remove the printer hard disk by pulling it away from the controller board.



4 Set aside the printer hard disk.

5 Close the controller board access cover.

Installing hardware options

Order of installation

CAUTION—POTENTIAL INJURY: The printer weight is greater than 18 kg (40 lb), and requires two or more trained personnel to lift it safely.

CAUTION—SHOCK HAZARD: If you are accessing the controller board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the electrical outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

Install the printer and any optional tray in the following order:

- Optional 550-sheet tray (Tray 3)
- 650-sheet duo tray (Tray 2)
- Printer

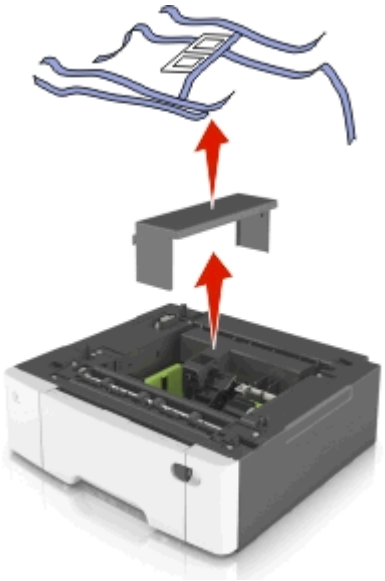
Installing optional trays

The printer supports two optional input sources: a 550-sheet tray (Tray 3) and a 650-sheet duo tray (Tray 2) with an integrated multipurpose feeder.

CAUTION—POTENTIAL INJURY: The printer weight is greater than 18 kg (40 lb) and requires two or more trained personnel to lift it safely.

CAUTION—SHOCK HAZARD: If you are accessing the controller board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the electrical outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

1 Unpack the optional tray and the dust cover, and then remove all packing material.

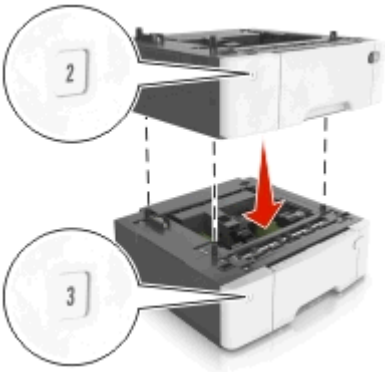


2 Place the tray near the printer.

3 Align the 650-sheet duo tray with the 550-sheet tray, and then lower it into place.

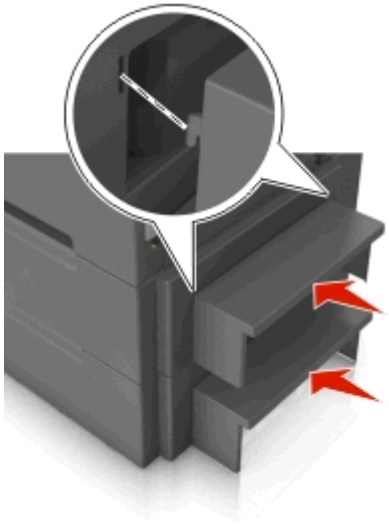
Notes:

- If you are installing both the optional trays, then the 550-sheet tray (Tray 3) must always be below the 650-sheet tray (Tray 2).
- The standard 250-sheet tray can be labeled as Tray 1 by using the tray number label that came with the optional tray.



4 Align the printer with the 650-sheet duo tray, and then lower the printer into place.

5 Install the dust covers.



Note: When the printer software and any hardware options are installed, you may need to manually add the options in the printer driver to make them available for print jobs. For more information, see "Updating available options in the printer driver" on page 32.

Setting up the printer software

Installing the printer

1 Obtain a copy of the software installer package.

2 Run the installer, and then follow the instructions on the computer screen.

3 For Macintosh users, add the printer.

Note: Obtain the printer IP address from the TCP/IP section in the Network/Ports menu.

Updating available options in the printer driver

When any hardware options are installed, you may need to manually add the options in the printer driver to make them available for use.

For Windows users

1 Open the printers folder.

In Windows 8

From the Search charm, type **`run`**, and then navigate to:

Apps list > **Run** > type **`control printers`** > **OK**

In Windows 7 or earlier

a Click or click **Start**, and then click **Run**.

b In the Start Search or Run dialog, type **`control printers`**.

c Press **Enter**, or click **OK**.

2 Depending on your device, do either of the following:

- Press and hold the printer you want to update.
- Right-click the printer you want to update.

3 From the menu that appears, do either of the following:

- For Windows 7 or later, select **Printer properties**.
- For earlier versions, select **Properties**.

4 Click the **Configuration** tab.

5 Do either of the following:

- Click **Update Now - Ask Printer**.
- Under Configuration Options, manually add any installed hardware options.

6 Click **Apply**.

For Macintosh users

1 From the Apple menu, navigate to either of the following:

- **System Preferences** > **Print & Scan** > select your printer > **Options & Supplies** > **Driver**
- **System Preferences** > **Print & Fax** > select your printer > **Options & Supplies** > **Driver**

2 Add any installed hardware options, and then click **OK**.

Attaching cables

Make sure to match the following:

- The USB symbol on the cable with the USB symbol on the printer
- The appropriate Ethernet cable to the Ethernet port

	Use the	To
1	Rear USB port	Attach a keyboard to the printer.
2	USB printer port	Connect the printer to a computer.
3	Ethernet port	Connect the printer to a network.
4	USB wireless port	Attach an optional wireless network adapter.
5	Security lock port	Lock the system controller board.
6	Printer power cord socket	Connect the printer to a properly grounded electrical outlet.

Networking

Notes:

- Purchase a wireless network adapter before setting up the printer on a wireless network. For more information, contact the place where you purchased the printer.
- A Service Set Identifier (SSID) is a name assigned to a wireless network. Wired Equivalent Privacy (WEP), Wi-Fi Protected Access (WPA), WPA2, and 802.1X - RADIUS are types of security used on a network.

Preparing to set up the printer on an Ethernet network

To configure your printer to connect to an Ethernet network, organize the following information before you begin:

Note: If your network automatically assigns IP addresses to computers and printers, continue on to installing the printer.

- A valid, unique IP address for the printer to use on the network
- The network gateway
- The network mask
- A nickname for the printer (optional)

  Note: A printer nickname can make it easier for you to identify your printer on the network. You can choose to use the default printer nickname, or assign a name that is easier for you to remember.

You will need an Ethernet cable to connect the printer to the network and an available port where the printer can physically connect to the network. Use a new network cable when possible to avoid potential problems caused by a damaged cable.

Preparing to set up the printer on a wireless network

Notes:

- Make sure your wireless network adapter is installed in your printer and working properly.
- Make sure your access point (wireless router) is turned on and is working properly.

Make sure you have the following information before setting up the printer on a wireless network:

- **SSID**—The SSID is also referred to as the network name.
- **Wireless Mode (or Network Mode)**—The mode is either infrastructure or ad hoc.
- **Channel (for ad hoc networks)**—The channel defaults to automatic for infrastructure networks.

  Some ad hoc networks will also require the automatic setting. Check with your system support person if you are not sure which channel to select.
- **Security Method**—There are three basic options for Security Method:
  - WEP key

    If your network uses more than one WEP key, then enter up to four in the provided spaces. Select the key currently in use on the network by selecting the default WEP transmit key.

    or
  - WPA or WPA2 preshared key or passphrase

    WPA includes encryption as an additional layer of security. The choices are AES or TKIP. Encryption must be set for the same type on the router and on the printer, or the printer will not be able to communicate on the network.
  - 802.1X–RADIUS

    If you are installing the printer on an 802.1X network, then you may need the following:
    - Authentication type
    - Inner authentication type
    - 802.1X user name and password
    - Certificates
  - No security

    If your wireless network does not use any type of security, then you will not have any security information.

    Note: Using an unsecured wireless network is not recommended.

Notes:

- If you do not know the SSID of the network that your computer is connected to, then launch the wireless utility of the computer network adapter, and then look for the network name. If you cannot find the SSID or the security information for your network, then see the documentation that came with the access point, or contact your system support person.
- To find the WPA/WPA2 preshared key/passphrase for the wireless network, see the documentation that came with the access point, see the Web page associated with the access point, or consult your system support person.

Connecting the printer using the Wireless Setup Wizard

Before you begin, make sure that:

- A wireless network adapter is installed in the printer and is working properly. For more information, see the instruction sheet that came with the wireless network adapter.
- An Ethernet cable is disconnected from the printer.
- Active NIC is set to Auto. To set this to Auto, navigate to:

  > **Network/Ports** > **Active NIC** > **Auto** >

Note: Make sure to turn off the printer, then wait for at least five seconds, and then turn the printer back on.

1. From the printer control panel, navigate to:

   > **Network/Ports** > **Network [x]** > **Network [x] Setup** > **Wireless** > **Wireless Connection Setup**

2. Select a wireless connection setup.

Use	To
Search for networks	Show available wireless connections. **Note:** This menu shows all broadcast secured or unsecured SSIDs.
Enter a network name	Manually type the SSID. **Note:** Make sure to type the correct SSID.
Wi-Fi Protected Setup	Connect the printer to a wireless network using Wi-Fi Protected Setup.

3. Follow the instructions on the printer display.

Connecting the printer to a wireless network using Wi-Fi Protected Setup

Before you begin, make sure that:

- The access point (wireless router) is Wi-Fi Protected Setup (WPS) certified or WPS-compatible. For more information, see the documentation that came with your access point.
- A wireless network adapter installed in your printer is attached and working properly. For more information, see the instruction sheet that came with the wireless network adapter.

Using the Push Button Configuration method

1 From the printer control panel, navigate to:

> **Network/Ports** > **Network [x]** > **Network [x] Setup** > **Wireless** > **Wireless Connection Setup** > **Wi-Fi Protected Setup** > **Start Push Button Method**

2 Follow the instructions on the printer display.

Using the Personal Identification Number (PIN) method

1 From the printer control panel, navigate to:

> **Network/Ports** > **Network [x]** > **Network [x] Setup** > **Wireless** > **Wireless Connection Setup** > **Wi-Fi Protected Setup** > **Start PIN Method**

2 Copy the eight-digit WPS PIN.

3 Open a Web browser, and then type the IP address of your access point in the address field.

Notes:

- The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the Web page correctly.

4 Access the WPS settings. For more information, see the documentation that came with your access point.

5 Enter the eight-digit PIN, and then save the setting.

Connecting the printer to a wireless network using the Embedded Web Server

Before you begin, make sure that:

- Your printer is connected temporarily to an Ethernet network.
- A wireless network adapter is installed in your printer and working properly. For more information, see the instruction sheet that came with your wireless network adapter.

1 Open a Web browser, and then type the printer IP address in the address field.

Notes:

- View the printer IP address in the TCP/IP section in the Network/Ports menu. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the Web page correctly.

2 Click **Settings** > **Network/Ports** > **Wireless**.

3 Modify the settings to match the settings of your access point (wireless router).

Note: Make sure to enter the correct SSID.

4 Click **Submit**.

5 Turn off the printer, and then disconnect the Ethernet cable. Then wait for at least five seconds, and then turn the printer back on.

6 To verify if your printer is connected to the network, print a network setup page. Then in the Network Card [x] section, see if the status is “Connected”.

For more information, see the “Verifying printer setup” section of the *User’s Guide*.

Verifying printer setup

When all hardware and software options are installed and the printer is turned on, verify that the printer is set up correctly by printing the following:

- **Menu settings page**—Use this page to verify that all printer options are installed correctly. A list of installed options appears toward the bottom of the page. If an option you installed is not listed, then it is not installed correctly. Remove the option and install it again.
- **Network setup page**—If your printer is connected to a network or connected to a print server, print a network setup page to verify the network connection. This page also provides important information that aids network printing configuration.

Printing a menu settings page

From the home screen, navigate to:

> **Reports** > **Menu Settings Page**

Printing a network setup page

If the printer is attached to a network, then print a network setup page to verify the network connection. This page also provides important information that aids network printing configuration.

1. From the home screen, navigate to:

   > **Reports** > **Network Setup Page**

2. Check the first section of the network setup page, and confirm that the status is **Connected**.

   If the status is **Not Connected**, then the LAN drop may not be active, or the network cable may be malfunctioning. Consult a system support person for a solution, and then print another network setup page.

Loading paper and specialty media

The selection and handling of paper and specialty media can affect how reliably documents print. For more information, see “Avoiding jams” on page 144 and “Storing paper” on page 55.

Setting the paper size and type

From the home screen navigate to:

> **Paper Menu** > **Paper Size/Type** > select a tray > select the paper size or type >

Configuring Universal paper settings

The Universal paper size is a user-defined setting that lets you print on paper sizes that are not preset in the printer menus.

Notes:

- The smallest supported Universal size is 76 x 127 mm (3 x 5 inches) and is loaded only in the multipurpose feeder and manual feeder.
- The largest supported Universal size is 215.9 x 359.9 mm (8.5 x 14.17 inches) and is loaded only in the multipurpose feeder and manual feeder.

1. From the home screen, navigate to:

   > **Paper Menu** > **Universal Setup** > **Units of Measure** > select a unit of measure

2. Touch **Portrait Width** or **Portrait Height**.
3. Select the width or height, and then touch .

Loading the 250- and 550-sheet tray

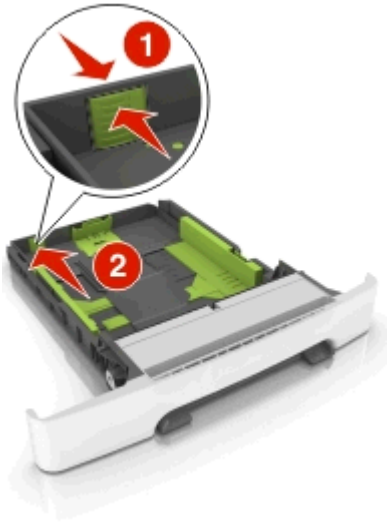
The printer has one 250-sheet tray (Tray 1) with an integrated manual feeder. The 250-sheet tray, the 650-sheet duo tray, and the 550-sheet tray support the same paper sizes and types and are loaded in the same way.

CAUTION—POTENTIAL INJURY: To reduce the risk of equipment instability, load each tray separately. Keep all other trays closed until needed.

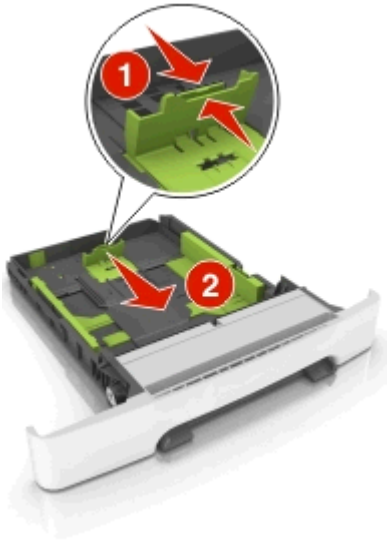
1. Pull out the tray completely.

   Note: Do not remove trays while a job is printing or while **Busy** appears on the display. Doing so may cause a jam.

2 If the paper is longer than letter-size paper, then squeeze and then slide the length guide at the back of the tray to extend it.

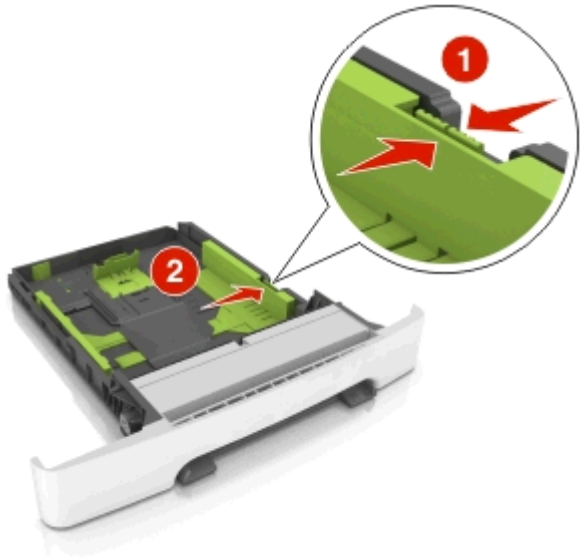


3 Squeeze, and then slide the length guide tab to the correct position for the size of the paper being loaded.



Note: Use the paper size indicators on the bottom of the tray to help position the guide.

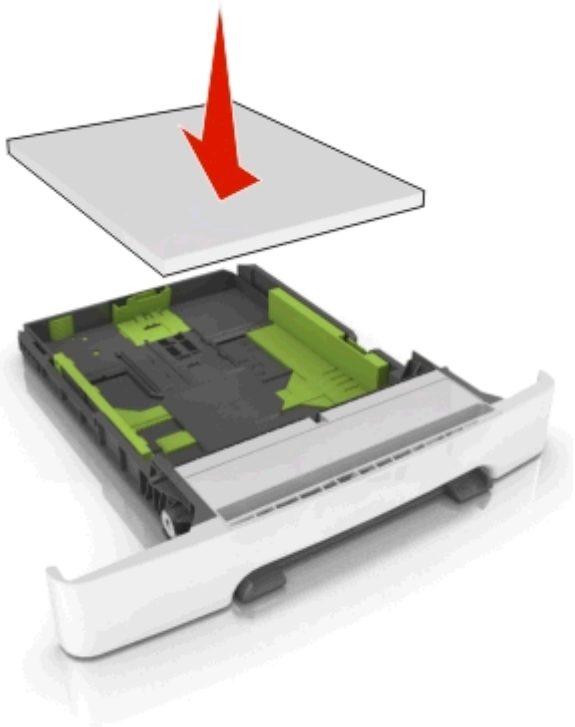
4 Squeeze, and then slide the width guide tab to the correct position for the size of the paper being loaded.



Note: Use the paper size indicators on the bottom of the tray to help position the guides.

5 Flex the sheets back and forth to loosen them, and then fan them. Do not fold or crease the paper. Straighten the edges on a level surface.

6 Load the paper stack with the recommended printable side faceup.



7 Place the paper guides securely against the edges of the paper.

8 Insert the tray.

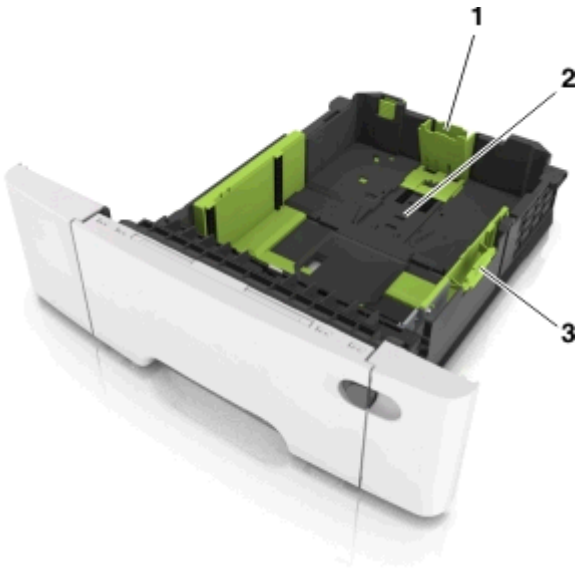
9 From the printer control panel, set the paper size and paper type in the Paper menu to match the paper loaded in the tray.

Note: Mixing paper sizes or paper types in a tray may cause jams.

Loading the 650-sheet duo tray

The 650-sheet duo tray (Tray 2) consists of a 550-sheet tray and an integrated 100-sheet multipurpose feeder. The tray is loaded in the same way as the 250-sheet tray and the optional 550-sheet tray, and supports the same paper types and sizes. The only differences are the look of the guide tabs and the location of the paper size indicators.

CAUTION—POTENTIAL INJURY: To reduce the risk of equipment instability, load each tray separately. Keep all other trays closed until needed.



1	Length guide tab
2	Paper size indicator
3	Width guide tab

Loading the multipurpose feeder

1 Push the multipurpose feeder latch to the left.

2 Open the multipurpose feeder.

3 Pull the multipurpose feeder extender.

Note: Guide the extender gently so that the multipurpose feeder is fully extended and open.

4 Prepare the paper for loading.

- Flex the sheets of paper back and forth to loosen them, and then fan them. Do not fold or crease the paper. Straighten the edges on a level surface.

- Hold transparencies by the edges, and then fan them. Straighten the edges on a level surface.

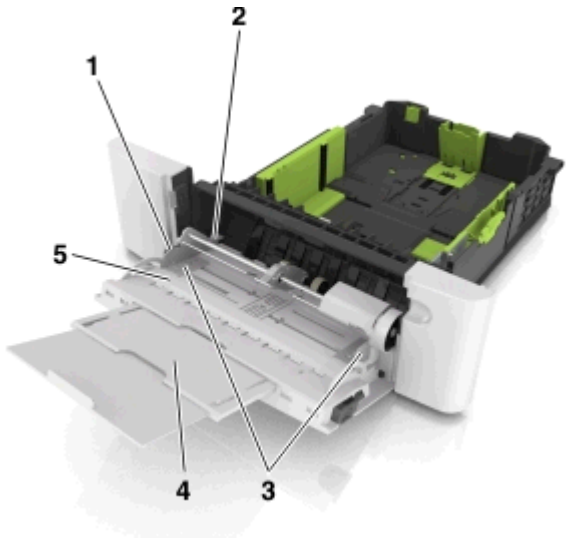
  Note: Avoid touching the printable side of transparencies. Be careful not to scratch them.

- Flex a stack of envelopes back and forth to loosen them, and then fan them. Straighten the edges on a level surface.

Warning—Potential Damage: Never use envelopes with stamps, clasps, snaps, windows, coated linings, or self-stick adhesives. These envelopes may severely damage the printer.

5 Locate the maximum paper fill indicator and tab.

Note: Make sure the paper or specialty media is below the maximum paper fill indicator located on the paper guides.



1	Width guide tab
2	Maximum paper fill indicator
3	Width guide
4	Feeder extender
5	Paper size indicator

6 Load the paper, and then adjust the width guide to lightly touch the edge of the paper stack.

- Load paper, card stock, and transparencies with the recommended printable side facedown and the top edge entering the printer first.

- Load envelopes with the flap side up and against the right side of the paper guide.

Notes:

- Do not load or close the multipurpose feeder while a job is printing.
- Load only one size and type of paper at a time.
- Paper should lie flat in the multipurpose feeder. Make sure the paper fits loosely in the multipurpose feeder and is not bent or wrinkled.

7 From the printer control panel, set the paper size and type in the Paper menu to match the paper loaded in the tray.

Loading the manual feeder

The standard 250-sheet tray has an integrated manual feeder that can be used to print on different types of paper one sheet at a time.

1 Load a sheet of paper into the manual feeder:

- Printable side facedown for one-sided printing
- Printable side faceup for two-sided (duplex) printing

Note: There are different ways for loading letterhead depending on the mode of printing.

One-sided printing using a letterhead	Two-sided printing using a letterhead

- Load envelope with the flap side up and against the right side of the paper guide.

2 Feed paper into the manual feeder only to the point where its leading edge can contact the paper guides.

Note: To achieve the best possible print quality, use only high-quality media designed for laser printers.

3 Adjust the paper guides to the width of the paper loaded.

Warning—Potential Damage: Do not force the paper into the feeder. Forcing the paper may cause jams.

Linking and unlinking trays

The printer links trays when the specified paper size and type are the same. When a linked tray becomes empty, paper feeds from the next linked tray. To prevent trays from linking, assign a unique custom paper type name.

Linking and unlinking trays

Note: This feature applies only in network printers.

1 Open a Web browser, and then type the printer IP address in the address field.

Notes:

- View the printer IP address in the TCP/IP section in the Network/Ports menu. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.

- If you are using a proxy server, then temporarily disable it to load the Web page correctly.

2 Click **Settings** > **Paper Menu**.

3 Change the tray settings to specify the paper size and type for the tray.
- To link trays, make sure the paper size and type for the tray match with that of the other tray.
- To unlink trays, make sure the paper size or type for the tray *does not* match with that of the other tray.

4 Click **Submit**.

Warning—Potential Damage: Paper loaded in the tray should match the paper type name assigned in the printer. The temperature of the fuser varies according to the specified paper type. Printing issues may occur if settings are not properly configured.

Creating a custom name for a paper type

Using the Embedded Web Server

1 Open a Web browser, and then type the printer IP address in the address field.

Notes:

- View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the Web page correctly.

2 Click **Settings** > **Paper Menu** > **Custom Names**.

3 Select a custom name, and then type a custom paper type name.

4 Click **Submit**.

5 Click **Custom Types**, and then verify if the new custom paper type name has replaced the custom name.

Using the printer control panel

1 From the home screen, navigate to:

> **Paper Menu** > **Custom Names**

2 Select a custom name, and then type a custom paper type name.

3 Touch .

4 Touch **Custom Types**, and then verify that the new custom paper type name has replaced the custom name.

Assigning a custom paper type

Using the Embedded Web Server

Assign a custom paper type name to a tray when linking or unlinking trays.

1 Open a Web browser, and then type the printer IP address in the address field.

Notes:

- View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the Web page correctly.

2 Click **Settings** > **Paper Menu** > **Custom Types**.

3 Select a custom paper type name, and then select a paper type

Note: Paper is the factory default paper type for all user-defined custom names.

4 Click **Submit**.

Using the printer control panel

1 From the home screen, navigate to:

> **Paper Menu** > **Custom Types**

2 Select a custom paper type name, and then select a paper type

Note: Paper is the factory default paper type for all user-defined custom names.

3 Touch .

Paper and specialty media guide

Notes:

- Make sure that the paper size, type, and weight are set correctly on the computer or on the control panel.
- Flex, fan, and straighten specialty media before loading them.
- The printer may print at a reduced speed to prevent damage to the fuser.

Using specialty media

Tips on using letterhead

- Use letterhead designed specifically for laser printers.
- Print a test page on the letterhead being considered for use before buying large quantities.
- Before loading letterhead, flex, fan, and straighten the stacks to prevent sheets from sticking together.
- Page orientation is important when printing on letterhead.

Source	Printing	Printable side	Paper orientation
Trays	One-sided	Faceup	Load the sheet with the top edge entering the printer first.
Trays	Two-sided	Facedown	Load the sheet with the bottom edge entering the printer first.
Note: Check with the manufacturer or vendor to determine whether or not the preprinted letterhead is acceptable for laser printers.			

Source	Printing	Printable side	Paper orientation
Manual feeder	One-sided	Facedown	Load the sheet with the top edge entering the printer first.
Manual feeder	Two-sided	Faceup	Load the sheet with the bottom edge entering the printer first.
Multipurpose feeder	One-sided	Facedown	Load the sheet with the top edge entering the printer first.
Multipurpose feeder	Two-sided	Faceup	Load the sheet with the bottom edge entering the printer first.

Note: Check with the manufacturer or vendor to determine whether or not the preprinted letterhead is acceptable for laser printers.

Tips on using transparencies

Print a test page on the transparencies being considered for use before buying large quantities.

- From the printer control panel, set the paper size, type, texture, and weight in the Paper menu to match the transparencies loaded in the tray.
- Print a test page on the transparencies being considered for use before buying large quantities.
- Feed transparencies from the 250-sheet tray, manual feeder, or multipurpose feeder.
- Use transparencies designed specifically for laser printers.
- Avoid getting fingerprints on the transparencies to prevent print quality problems.
- Before loading transparencies, flex, fan, and straighten the stacks to prevent sheets from sticking together.

Tips on using envelopes

- From the printer control panel, set the paper size, type, texture, and weight in the Paper menu to match the envelopes loaded in the tray.
- Print samples on the envelopes being considered for use before buying large quantities.
- Use envelopes designed specifically for laser printers.
- For best performance, use envelopes made from 90-g/m^2 (24-lb) paper or 25% cotton.
- Use only new envelopes from undamaged packages.
- To optimize performance and minimize jams, do not use envelopes that:
  - Have excessive curl or twist.
  - Are stuck together or damaged in any way.
  - Have windows, holes, perforations, cutouts, or embossing.
  - Have metal clasps, string ties, or folding bars.
  - Have an interlocking design.
  - Have postage stamps attached.
  - Have any exposed adhesive when the flap is in the sealed or closed position.
  - Have bent corners.
  - Have rough, cockle, or laid finishes.
- Adjust the width guides to fit the width of the envelopes.
- Before loading the envelopes on the tray, flex and fan the envelopes to loosen them. Straighten the edges on a level surface.

Note: A combination of high humidity (over 60%) and high printing temperature may wrinkle or seal envelopes.

Tips on using labels

- From the printer control panel, set the paper size, type, texture, and weight in the Paper menu to match the labels loaded in the tray.
- Print samples on labels being considered for use before buying large quantities.
- Use labels designed specifically for laser printers.
- Do not use labels with slick backing material.

- Use full label sheets. Partial sheets may cause labels to peel off during printing, resulting in a jam. Partial sheets also contaminate the printer and the cartridge with adhesive, and could void the printer and toner cartridge warranties.
- Do not use labels with exposed adhesive.
- Before loading labels on the tray, flex and fan labels to loosen them. Straighten the edges on a level surface.

Tips on using card stock

Card stock is heavy, single-ply specialty media. Many of its variable characteristics, such as moisture content, thickness, and texture, can significantly affect print quality.

- From the printer control panel, set the paper size, type, texture, and weight in the Paper menu to match the card stock loaded in the tray.
- Print samples on the card stock being considered for use before buying large quantities.
- Specify the paper texture and weight from the tray settings to match the paper loaded in the tray.
- Preprinting, perforation, and creasing may significantly affect the print quality and cause jams or other paper feed problems.
- Before loading the card stock on the tray, flex and fan the card stock to loosen them. Straighten the edges on a level surface.

Paper guidelines

Select the correct paper or specialty media to reduce printing problems. For the best print quality, try a sample of the paper or specialty media before buying large quantities.

Paper characteristics

The following paper characteristics affect print quality and reliability. Consider these characteristics when evaluating new paper stock.

Weight

The printer trays can automatically feed paper weights up to 176-g/m^2 (47-lb) bond grain long paper. The multipurpose feeder can automatically feed paper weights up to 176-g/m^2 (47-lb) bond grain long paper. Paper lighter than 60 g/m^2 (16 lb) might not be stiff enough to feed properly, causing jams. For best performance, use 75-g/m^2 (20-lb) bond grain long paper. For paper smaller than 182 x 257 mm (7.2 x 10.1 inches), we recommend 90 g/m^2 (24 lb) or heavier paper.

Note: Duplex printing is supported from 60–105-g/m^2 (16–28-lb) bond grain long paper.

Curl

Curl is the tendency for paper to curl at its edges. Excessive curl can cause paper feeding problems. Curl can occur after the paper passes through the printer, where it is exposed to high temperatures. Storing paper unwrapped in hot, humid, cold, or dry conditions, even in the trays, can contribute to paper curling prior to printing and can cause feeding problems.

Smoothness

Paper smoothness directly affects print quality. If paper is too rough, then toner cannot fuse to it properly. If paper is too smooth, then it can cause paper feeding or print quality issues. Always use paper between 100 and 300 Sheffield points; smoothness between 150 and 250 Sheffield points produces the best print quality.

Moisture content

The amount of moisture in paper affects both print quality and the ability of the printer to feed the paper correctly. Leave paper in its original wrapper until it is time to use it. This limits the exposure of paper to moisture changes that can degrade its performance.

Store paper in its original wrapper in the same environment as the printer for 24 to 48 hours before printing. Extend the time to several days if the storage or transportation environment is very different from the printer environment. Thick paper may also require a longer conditioning period.

Grain direction

Grain refers to the alignment of the paper fibers in a sheet of paper. Grain is either *grain long*, running the length of the paper, or *grain short*, running the width of the paper.

For 60–90-g/m^2 (16–24-lb) bond paper, grain long paper is recommended.

Fiber content

Most high-quality xerographic paper is made from 100% chemically treated pulped wood. This content provides the paper with a high degree of stability resulting in fewer paper feeding problems and better print quality. Paper containing fibers such as cotton can negatively affect paper handling.

Unacceptable paper

The following paper types are not recommended for use with the printer:

- Chemically treated papers used to make copies without carbon paper, also known as carbonless papers, carbonless copy paper (CCP), or no carbon required (NCR) paper
- Preprinted papers with chemicals that may contaminate the printer
- Preprinted papers that can be affected by the temperature in the printer fuser
- Preprinted papers that require a registration (the precise print location on the page) greater than ±2.3 mm (±0.9 in.), such as optical character recognition (OCR) forms

  In some cases, registration can be adjusted with a software application to successfully print on these forms.
- Coated papers (erasable bond), synthetic papers, thermal papers
- Rough-edged, rough or heavily textured surface papers, or curled papers
- Recycled papers that fail EN12281:2002 (European)
- Paper weighing less than 60 g/m^2 (16 lb)
- Multiple-part forms or documents

Selecting paper

Using the appropriate paper prevents jams and helps ensure trouble-free printing.

To help avoid paper jams and poor print quality:

- *Always* use new, undamaged paper.
- Before loading paper, know the recommended printable side of the paper. This information is usually indicated on the paper package.
- *Do not* use paper that has been cut or trimmed by hand.
- *Do not* mix paper sizes, types, or weights in the same tray; mixing results in jams.
- *Do not* use coated papers unless they are specifically designed for electrophotographic printing.

Selecting preprinted forms and letterhead

Use these guidelines when selecting preprinted forms and letterhead:

- Use grain long for 60–90 g/m^2 (16–24 lb) paper.
- Use only forms and letterhead printed using an offset lithographic or engraved printing process.
- Avoid papers with rough or heavily textured surfaces.

Use papers printed with heat-resistant inks designed for use in xerographic copiers. The ink must be able to withstand temperatures up to 230°C (446°F) without melting or releasing hazardous emissions. Use inks that are not affected by the resin in toner. Inks that are oxidation-set or oil-based generally meet these requirements; latex inks might not. When in doubt, contact the paper supplier.

Preprinted papers such as letterhead must be able to withstand temperatures up to 230°C (446°F) without melting or releasing hazardous emissions.

Using recycled paper and other office papers

Recycled office paper produced specifically for use in laser (electrophotographic) printers may be used in your printer. However, no blanket statement can be made that *all* recycled paper will feed well.

Generally, the following property guidelines apply to recycled paper.

- Low moisture content (4–5%)
- Suitable smoothness (100–200 Sheffield units, or 140–350 Bendtsen units, European)

  Note: Some much smoother papers (such as premium 24 lb laser papers, 50–90 Sheffield units) and much rougher papers (such as premium cotton papers, 200–300 Sheffield units) have been engineered to work very well in laser printers, despite surface texture. Before using these types of paper, consult your paper supplier.
- Suitable sheet-to-sheet coefficient of friction (0.4–0.6)
- Sufficient bending resistance in the direction of feed

Recycled paper, paper of lower weight (<60 g/m^2 [16 lb bond]) and/or lower caliper (<3.8 mils [0.1 mm]), and paper that is cut grain-short for portrait (or short-edge) fed printers may have lower bending resistance than is required for reliable paper feeding. Before using these types of paper for laser (electrophotographic) printing, consult your paper supplier. Remember that these are general guidelines only and that paper meeting these guidelines may still cause paper feeding problems in any laser printer (for example, if the paper curls excessively under normal printing conditions).

Storing paper

Use these paper storage guidelines to help avoid jams and uneven print quality:

- For best results, store paper where the temperature is 21°C (70°F) and the relative humidity is 40 percent. Most label manufacturers recommend printing in a temperature range of 18–24°C (65–75°F) with relative humidity between 40 and 60 percent.
- Store paper in cartons, on a pallet or shelf, rather than on the floor.
- Store individual packages on a flat surface.
- Do not store anything on top of individual paper packages.
- Take paper out of the carton or wrapper only when you are ready to load it in the printer. The carton and wrapper help keep the paper clean, dry, and flat.

Supported paper sizes, types, and weights

The following tables provide information on standard and optional paper sources and the sizes, types, and weights of paper they support.

Note: For unlisted paper sizes, select the closest *larger* listed size.

Supported paper sizes

Note: Your printer model may have a 650-sheet duo tray, which consists of a 550-sheet tray and an integrated 100-sheet multipurpose feeder. The 550-sheet tray of the 650-sheet duo tray supports the same paper sizes as the optional 550-sheet tray. The integrated multipurpose feeder supports different paper sizes, types, and weights.

Paper size and dimension	Standard 250-sheet tray	Manual feeder	650-sheet duo tray		550-sheet tray	Duplex mode
			550-sheet tray	Multipurpose feeder		
A4 210 x 297 mm (8.3 x 11.7 in.)	✓[1]	✓	✓[1]	✓[1]	✓[1]	✓
A5 148 x 210 mm (5.83 x 8.3 in.)	✓[1]	✓	✓[2]	✓[1]	✓[2]	X
A6 105 x 148 mm (4.1 x 5.8 in.)	X	✓	X	✓[1]	X	X

[1] The paper source supports paper size without *size sensing*.

[2] Universal is only supported in the standard 250and optional 550sheet tray if the paper size is from 148 x 215.9 mm (5.83 x 8.5 inches) to 215.9 x 355.6 mm (8.5 x 14 inches).

[3]Universal is only supported in the multipurpose feeder and manual feeder if the paper size is from 76.2 x 127 mm (3 x 5 inches) to 215.9 x 359.9 mm (8.5 x 14.17 inches).

[4]Universal is only supported in duplex mode if the width is between 210 mm (8.27 inches) and 215.9 mm (8.5 inches) and length is between 279.4 mm (11 inches) and 355.6 mm (14 inches).

Paper size and dimension	Standard 250-sheet tray	Manual feeder	650-sheet duo tray		550-sheet tray	Duplex mode
			550-sheet tray	Multipurpose feeder		
JIS B5 182 x 257 mm (7.2 x 10.1 in.)	✓[1]	✓	✓[1]	✓[1]	✓[1]	X
Letter 216 x 279 mm (8.5 x 11 in.)	✓[1]	✓	✓[1]	✓[1]	✓[1]	✓
Legal 216 x 356 mm (8.5 x 14 in.)	✓[1]	✓	✓[1]	✓[1]	✓[1]	✓
Executive 184 x 267 mm (7.3 x 10.5 in.)	✓[1]	✓	✓[1]	✓[1]	✓[1]	X
Oficio (Mexico) 216 x 340 mm (8.5 x 13.4 in.)	✓[1]	✓	✓[1]	✓[1]	✓[1]	✓
Folio 216 x 330 mm (8.5 x 13 in.)	✓[1]	✓	✓[1]	✓[1]	✓[1]	✓
Statement 140 x 216 mm (5.5 x 8.5 in.)	X	✓	X	✓[1]	X	X
Universal 76 x 127 mm (3 x 5 in.) to 216 x 356 mm (8.5 x 14 in.)	X	✓[1,3]	X	✓[1,3]	X	X
Universal 148 x 210 mm (5.8 x 8.3 in) to 216 x 356 mm (8.5 x 14 in).	✓[1,2]	✓	✓[1,2]	✓	✓[1,2]	✓[4]
7 3/4 Envelope (Monarch) 98 x 191 mm (3.9 x 7.5 in.)	X	✓	X	✓[1]	X	X

[1] The paper source supports paper size without *size sensing*.

[2] Universal is only supported in the standard 250and optional 550sheet tray if the paper size is from 148 x 215.9 mm (5.83 x 8.5 inches) to 215.9 x 355.6 mm (8.5 x 14 inches).

[3]Universal is only supported in the multipurpose feeder and manual feeder if the paper size is from 76.2 x 127 mm (3 x 5 inches) to 215.9 x 359.9 mm (8.5 x 14.17 inches).

[4]Universal is only supported in duplex mode if the width is between 210 mm (8.27 inches) and 215.9 mm (8.5 inches) and length is between 279.4 mm (11 inches) and 355.6 mm (14 inches).

Paper size and dimension	Standard 250-sheet tray	Manual feeder	650-sheet duo tray		550-sheet tray	Duplex mode
			550-sheet tray	Multipurpose feeder		
9 Envelope 98 x 225 mm (3.9 x 8.9 in.)	X	✓	X	✓[1]	X	X
10 Envelope 105 x 241 mm (4.1 x 9.5 in.)	X	✓	X	✓[1]	X	X
DL Envelope 110 x 220 mm (4.3 x 8.7 in.)	X	✓	X	✓[1]	X	X
C5 Envelope 162 x 229 mm (6.4 x 9 in.)	X	✓	X	✓[1]	X	X
B5 Envelope 176 x 250 mm (6.9 x 9.8 in.)	X	✓	X	✓[1]	X	X
Other Envelope 98 x 162 mm (3.9 x 6.3 in.) up to 176 x 250 mm (6.9 x 9.8 in.)	X	✓	X	✓[1]	X	X

[1] The paper source supports paper size without *size sensing*.

[2] Universal is only supported in the standard 250and optional 550sheet tray if the paper size is from 148 x 215.9 mm (5.83 x 8.5 inches) to 215.9 x 355.6 mm (8.5 x 14 inches).

[3]Universal is only supported in the multipurpose feeder and manual feeder if the paper size is from 76.2 x 127 mm (3 x 5 inches) to 215.9 x 359.9 mm (8.5 x 14.17 inches).

[4]Universal is only supported in duplex mode if the width is between 210 mm (8.27 inches) and 215.9 mm (8.5 inches) and length is between 279.4 mm (11 inches) and 355.6 mm (14 inches).

Supported paper types and weights

Notes:

- Your printer model may have a 650-sheet duo tray, which consists of a 550-sheet tray and an integrated 100-sheet multipurpose feeder. The 550-sheet tray of the 650-sheet duo tray supports the same paper as the 550-sheet tray. The integrated multipurpose feeder supports different paper sizes, types, and weights.
- Labels, transparencies, envelopes, and card stock always print at reduced speed.

Paper type	250-sheet tray	Manual feeder	650-sheet duo tray		550-sheet tray	Duplex mode
			550-sheet tray	Multipurpose feeder		
Paper • Plain • Recycled • Glossy • Bond • Letterhead • Preprinted • Colored • Light • Heavy • Rough/Cotton • Custom Type [x]	✓	✓	✓	✓	✓	✓
Card stock	✓	✓	✓	✓	✓	X
Transparencies	✓	✓	X	✓	X	X
Labels • Paper	✓	✓	✓	✓	✓	X
Envelope	X	✓	X	✓	X	X

Printing

Printing forms and a document

Printing forms

Use Forms and Favorites to quickly and easily access frequently used forms or other information that is regularly printed. Before you can use this application, first set it up on the printer. For more information, see "Setting up Forms and Favorites" on page 17.

1. From the home screen, navigate to:

   Forms and Favorites > select the form from the list > enter the number of copies > adjust other settings

2. Apply the changes.

Printing a document

1. From the printer control panel, set the paper type and size to match the paper loaded.
2. Send the print job:

   For Windows users

   a. With a document open, click **File** > **Print**.

   b. Click **Properties**, **Preferences**, **Options**, or **Setup**.

   c. Adjust the settings, if necessary.

   d. Click **OK** > **Print**.

   For Macintosh users

   a. Customize the settings in the Page Setup dialog:

      1. With a document open, choose **File** > **Page Setup**.
      2. Choose a paper size or create a custom size to match the paper loaded.
      3. Click **OK**.

   b. Customize the settings in the Print dialog:

      1. With a document open, choose **File** > **Print**.
         If necessary, click the disclosure triangle to see more options.
      2. From the print options pop-up menus, adjust the settings, if necessary.

         Note: To print on a specific paper type, adjust the paper type setting to match the paper loaded, or select the appropriate tray or feeder.
      3. Click **Print**.

Printing in black and white

From the home screen, navigate to:

> **Settings** > **Print Settings** > **Quality Menu** > **Print Mode** > **Black Only** >

Adjusting toner darkness

Using the Embedded Web Server

1. Open a Web browser, and then type the printer IP address in the address field.

   Notes:

   - View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
   - If you are using a proxy server, then temporarily disable it to load the Web page correctly.

2. Click **Settings** > **Print Settings** > **Quality Menu** > **Toner Darkness**.
3. Adjust the setting, and then click **Submit**.

Using the printer control panel

1. From the home screen, navigate to:

   > **Settings** > **Print Settings** > **Quality Menu** > **Toner Darkness**

2. Adjust the setting, and then touch .

Using Max Speed and Max Yield

Max Speed and Max Yield let you choose between a faster print speed or a higher toner yield. Max Yield is the factory default setting.

- **Max Speed**—This lets you print in either black or color depending on what is set in the printer driver. The printer prints in color unless Black Only is selected in the printer driver.
- **Max Yield**—This lets you switch from black to color based on the color content found on each page. Frequent color mode switching can result to slower printing if the content of pages is mixed.

Using the Embedded Web Server

1. Open a Web browser, and then type the printer IP address in the address field.

   Notes:

   - View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
   - If you are using a proxy server, then temporarily disable it to load the Web page correctly.

2. Click **Settings** > **Print Settings** > **Setup Menu**.
3. From the Printer Usage list, select **Max Speed** or **Max Yield**.
4. Click **Submit**.

Using the printer control panel

1 From the home screen, navigate to:

> **Settings** > **Print Settings** > **Setup Menu**

2 From the Printer Usage list, select **Max Speed** or **Max Yield**.

3 Touch **Submit**.

Printing from a flash drive

Printing from a flash drive

Notes:

- Before printing an encrypted PDF file, you will be prompted to type the file password from the printer control panel.
- You cannot print files for which you do not have printing permissions.

1 Insert a flash drive into the USB port.

Notes:

- A flash drive icon appears on the printer home screen when a flash drive is inserted.
- If you insert the flash drive when the printer requires attention, such as when a jam has occurred, then the printer ignores the flash drive.
- If you insert the flash drive while the printer is processing other print jobs, then **Busy** appears. After these print jobs are processed, you may need to view the held jobs list to print documents from the flash drive.

Warning—Potential Damage: Do not touch the printer or the flash drive in the area shown while actively printing, reading, or writing from the memory device. Loss of data can occur.

2 From the printer control panel, touch the document you want to print.

3 Touch the arrows to specify the number of copies for printing, and then touch **Print**.

Notes:

- Do not remove the flash drive from the USB port until the document has finished printing.
- If you leave the flash drive in the printer after leaving the initial USB menu screen, then touch **Held Jobs** on the home screen to print files from the flash drive.

Supported flash drives and file types

Notes:

- High-speed USB flash drives must support the full-speed standard. Low-speed USB devices are not supported.
- USB flash drives must support the File Allocation Table (FAT) system. Devices formatted with New Technology File System (NTFS) or any other file system are not supported.

Recommended flash drives	File type
Many flash drives are tested and approved for use with the printer. For more information, contact the place where you purchased the printer.	Documents: • .pdf • .xps Images: • .dcx • .gif • .jpeg or .jpg • .bmp • .pcx • .tiff or .tif • .png • .fls

Printing from a mobile device

To download a compatible mobile printing application, visit our Web site or contact the place where you purchased the printer.

Note: Mobile printing applications may also be available from your mobile device manufacturer.

Printing confidential and other held jobs

Storing print jobs in the printer

1 From the home screen, navigate to:

> **Security** > **Confidential Print** > select a print job type

Use	To
Max Invalid PIN	Limit the number of times an invalid PIN can be entered. **Note:** When the limit is reached, the print jobs for that user name and PIN are deleted.
Confidential Job Expiration	Hold print jobs in the computer until you enter the PIN from the printer control panel. **Note:** The PIN is set from the computer. It must be four digits, using the numbers 0–9.
Repeat Job Expiration	Print and store print jobs in the printer memory.
Verify Job Expiration	Print one copy of a print job and hold the remaining copies. It lets you examine if the first copy is satisfactory or not. The print job is automatically deleted from the printer memory when all copies are printed.
Reserve Job Expiration	Store print jobs for printing at a later time. **Note:** The print jobs are held until deleted from the Held Jobs menu.

Notes:

- Confidential, Verify, Reserve, and Repeat print jobs may be deleted if the printer requires extra memory to process additional held jobs.
- You can set the printer to store print jobs in the printer memory until you start the print job from the printer control panel.
- All print jobs that can be initiated by the user at the printer are called *held jobs*.

2 Touch .

Printing confidential and other held jobs

Note: Confidential and Verify print jobs are automatically deleted from memory after printing. Repeat and Reserve jobs are *held* in the printer until you delete them.

For Windows users

1. With a document open, click **File** > **Print**.
2. Click **Properties**, **Preferences**, **Options**, or **Setup**.
3. Click **Print and Hold**.
4. Select the print job type (Confidential, Repeat, Reserve, or Verify), and then assign a user name. For a confidential print job, also enter a four-digit PIN.
5. Click **OK** or **Print**.
6. From the printer home screen, release the print job.
   - For confidential print jobs, navigate to:
     Held jobs > select your user name > **Confidential Jobs** > enter the PIN > **Print**
   - For other print jobs, navigate to:
     Held jobs > select your user name > select the print job > specify the number of copies > **Print**

For Macintosh users

1. With a document open, choose **File** > **Print**.

   If necessary, click the disclosure triangle to see more options.
2. From the print options or Copies & Pages pop-up menu, choose **Job Routing**.
3. Select the print job type (Confidential, Repeat, Reserve, or Verify), and then assign a user name. For a confidential print job, also enter a four-digit PIN.
4. Click **OK** or **Print**.
5. From the printer home screen, release the print job.
   - For confidential print jobs, navigate to:
     Held jobs > select your user name > **Confidential Jobs** > enter the PIN > **Print**
   - For other print jobs, navigate to:
     Held jobs > select your user name > select the print job > specify the number of copies > **Print**

Printing information pages

Printing a font sample list

1. From the home screen, navigate to:

   > **Reports** > **Print Fonts**
2. Touch **PCL Fonts** or **PostScript Fonts**.

Printing a directory list

A directory list shows the resources stored in a flash memory or on the printer hard disk.

From the home screen, navigate to:

> **Reports** > **Print Directory**

Canceling a print job

Canceling a print job from the printer control panel

1. From the printer control panel, touch **Cancel Job** or press on the keypad.
2. Touch the print job you want to cancel, and then touch **Delete Selected Jobs**.

   Note: If you press on the keypad, then touch **Resume** to return to the home screen.

Canceling a print job from the computer

For Windows users

1. Open the printers folder, and then select your printer.
2. From the print queue, select the print job you want to cancel, and then delete it.

For Macintosh users

1. From System Preferences in the Apple menu, navigate to your printer.
2. From the print queue, select the print job you want to cancel, and then delete it.

Understanding the printer menus

Menus list

Note: Some menus are available only in select printer models.

Paper Menu	Reports	Network/Ports	Security
Default Source	Menu Settings Page	Active NIC	Miscellaneous Security Settings
Paper Size/Type	Device Statistics	Standard Network or Network [x]	Confidential Print
Configure MP[1]	Network Setup Page	Standard USB	Erase Temporary Data Files
Substitute Size	Network [x] Setup Page	SMTP Setup	Security Audit Log
Paper Texture	Profiles List		Set Date and Time
Paper Weight	Print Fonts		
Paper Loading	Print Directory		
Custom Types	Print Demo		
Custom Names	Asset Report		
Universal Setup			

Settings	Help	Option Card Menu
General Settings	Print All Guides	**Note:** A list of installed DLEs (Download Emulators) appears.
Flash Drive Menu	Color Quality	
Print Settings	Print Quality	
	Printing Guide	
	Print Defects Guide	
	Information Guide	

[1] This menu item appears only when a 650-sheet duo tray is attached.

Paper menu

Default Source menu

Use	To
Default Source Tray [x] Multipurpose Feeder Manual Paper Manual Envelope	Set a default paper source for all print jobs. **Notes:** • Tray 1 (standard tray) is the factory default setting. • From the Paper menu, set Configure MP to "Cassette" for Multipurpose Feeder to appear as a menu setting. • If two trays contain paper of the same size and type, and the trays have the same settings, then the trays are automatically linked. When one tray is empty, the print job continues using the linked tray.

Paper Size/Type menu

Use	To
Tray [x] Size A4 A5 JIS-B5 Letter Legal Executive Oficio (Mexico) Folio Universal	Specify the size of the paper loaded in each tray. **Note:** Letter is the U.S. factory default setting. A4 is the international factory default setting.
Tray [x] Type Plain Paper Card Stock Transparency Recycled Glossy Labels Bond Letterhead Preprinted Colored Paper Light Paper Heavy Paper Rough/Cotton Custom Type [x]	Specify the type of the paper loaded in each tray. **Notes:** • Plain Paper is the factory default setting for Tray 1. Custom Type [x] is the factory default setting for all other trays. • If available, a user-defined name will appear instead of Custom Type [x]. • Use this menu to configure automatic tray linking. • Only the 250-sheet tray supports transparency.
Note: Only installed trays and feeders are listed in this menu.	

Use	To
Multipurpose Feeder Size A4 A5 A6 JIS B5 Letter Legal Executive Oficio (Mexico) Folio Statement Universal 7 3/4 Envelope 9 Envelope 10 Envelope DL Envelope C5 Envelope B5 Envelope Other Envelope	Specify the size of the paper loaded in the multipurpose feeder. **Notes:** • Letter is the U.S. factory default setting. A4 is the international factory default setting. • From the Paper menu, set Configure MP to Cassette in order for Multipurpose Feeder Size to appear as a menu. • The multipurpose feeder does not automatically detect the paper size. Make sure the paper size is set.
Multipurpose Feeder Type Plain Paper Card Stock Transparency Recycled Glossy Labels Bond Envelope Letterhead Preprinted Colored Paper Light Paper Heavy Paper Rough/Cotton Custom Type [x]	Specify the type of the paper loaded in the multipurpose feeder. **Notes:** • Custom [x] is the factory default setting. • From the Paper menu, set Configure MP to Cassette in order for Multipurpose Feeder Type to appear as a menu.
Note: Only installed trays and feeders are listed in this menu.	

Use	To
Manual Paper Size A4 A5 A6 JIS B5 Letter Legal Executive Oficio (Mexico) Folio Statement Universal	Specify the size of the paper being manually loaded. **Note:** Letter is the U.S. factory default setting. A4 is the international factory default setting.
Manual Paper Type Plain Paper Card Stock Transparency Recycled Glossy Labels Bond Letterhead Preprinted Colored Paper Light Paper Heavy Paper Rough/Cotton Custom Type [x]	Specify the type of the paper being manually loaded. **Notes:** • Plain Paper is the factory default setting. • From the Paper menu, set Configure MP to Manual in order for Manual Paper Type to appear as a menu.
Manual Envelope Size 7 3/4 Envelope 9 Envelope 10 Envelope DL Envelope C5 Envelope B5 Envelope Other Envelope	Specify the size of the envelope being manually loaded. **Note:** 10 Envelope is the U.S. factory default setting. DL Envelope is the international factory default setting.
Manual Envelope Type Envelope Custom Type [x]	Specify the type of the envelope being manually loaded. **Note:** Envelope is the factory default setting.
Note: Only installed trays and feeders are listed in this menu.	

Configure MP menu

Use	To
Configure MP Cassette Manual First	Determine when the printer selects paper from the multipurpose feeder. **Notes:** • Cassette is the factory default setting. Cassette configures the multipurpose feeder as the automatic paper source. • Manual sets the multipurpose feeder only for manual-feed print jobs. • First configures the multipurpose feeder as the primary paper source.

Substitute Size menu

Use	To
Substitute Size Off Statement/A5 Letter/A4 All Listed	Substitute a specified paper size if the requested paper size is not available. **Notes:** • All Listed is the factory default setting. All available substitutions are allowed. • Off indicates that no size substitutions are allowed. • Setting a size substitution lets the print job continue without **Change Paper** appearing.

Paper Texture menu

Use	To
Plain Texture Smooth Normal Rough	Specify the relative texture of the plain paper loaded. **Note:** Normal is the factory default setting.
Card Stock Texture Smooth Normal Rough	Specify the relative texture of the card stock loaded. **Notes:** • Normal is the factory default setting. • The options appear only if card stock is supported.
Transparency Texture Smooth Normal Rough	Specify the relative texture of the transparencies loaded. **Note:** Normal is the factory default setting.
Recycled Texture Smooth Normal Rough	Specify the relative texture of the recycled paper loaded. **Note:** Normal is the factory default setting.

Use	To
Glossy Texture Smooth Normal Rough	Specify the relative texture of the glossy paper loaded. **Note:** Normal is the factory default setting.
Heavy Glossy Texture Smooth Normal Rough	Specify the relative texture of the heavy glossy paper loaded. **Note:** Normal is the factory default setting.
Labels Texture Smooth Normal Rough	Specify the relative texture of the labels loaded. **Note:** Normal is the factory default setting.
Bond Texture Smooth Normal Rough	Specify the relative texture of the bond paper loaded. **Note:** Rough is the factory default setting.
Envelope Texture Smooth Normal Rough	Specify the relative texture of the envelopes loaded. **Note:** Normal is the factory default setting.
Letterhead Texture Smooth Normal Rough	Specify the relative texture of the letterhead loaded. **Note:** Normal is the factory default setting.
Preprinted Texture Smooth Normal Rough	Specify the relative texture of the preprinted paper loaded. **Note:** Normal is the factory default setting.
Colored Texture Smooth Normal Rough	Specify the relative texture of the colored paper loaded. **Note:** Normal is the factory default setting.
Light Texture Smooth Normal Rough	Specify the relative texture of the light paper loaded. **Note:** Normal is the factory default setting.
Heavy Texture Smooth Normal Rough	Specify the relative texture of the heavy paper loaded. **Note:** Normal is the factory default setting.
Rough/Cotton Texture Rough	Specify the relative texture of the cotton paper loaded.

Use	To
Custom [x] Texture Smooth Normal Rough	Specify the relative texture of the custom paper loaded. **Notes:** • Normal is the factory default setting. • The options appear only if custom type is supported.

Paper Weight menu

Use	To
Plain Weight Light Normal Heavy	Specify the relative weight of the plain paper loaded. **Note:** Normal is the factory default setting.
Card Stock Weight Light Normal Heavy	Specify the relative weight of the card stock loaded. **Note:** Normal is the factory default setting.
Transparency Weight Light Normal Heavy	Specify the relative weight of the transparencies loaded. **Note:** Normal is the factory default setting.
Recycled Weight Light Normal Heavy	Specify the relative weight of the recycled paper loaded. **Note:** Normal is the factory default setting.
Glossy Weight Light Normal Heavy	Specify the relative weight of the glossy paper loaded. **Note:** Normal is the factory default setting.
Heavy Glossy Weight Light Normal Heavy	Specify the relative weight of the heavy glossy paper loaded. **Note:** Normal is the factory default setting.
Labels Weight Light Normal Heavy	Specify the relative weight of the labels loaded. **Note:** Normal is the factory default setting.
Bond Weight Light Normal Heavy	Specify the relative weight of the bond paper loaded. **Note:** Normal is the factory default setting.

Use	To
Envelope Weight Light Normal Heavy	Specify the relative weight of the envelope loaded. **Note:** Normal is the factory default setting.
Rough Envelope Weight Light Normal Heavy	Specify the relative weight of the rough envelope loaded. **Note:** Heavy is the factory default setting.
Letterhead Weight Light Normal Heavy	Specify the relative weight of the letterhead loaded. **Note:** Normal is the factory default setting.
Preprinted Weight Light Normal Heavy	Specify the relative weight of the preprinted paper loaded. **Note:** Normal is the factory default setting.
Colored Weight Light Normal Heavy	Specify the relative weight of the colored paper loaded. **Note:** Normal is the factory default setting.
Light Weight Light	Specify that the relative weight of the paper loaded is light.
Heavy Weight Heavy	Specify that the relative weight of the paper loaded is heavy.
Rough/Cotton Weight Light Normal Heavy	Specify the relative weight of the rough or cotton paper loaded. **Note:** Normal is the factory default setting.
Custom [x] Weight Light Normal Heavy	Specify the relative weight of the custom paper loaded. **Notes:** • Normal is the factory default setting. • The options appear only when the custom type is supported.

Paper Loading menu

Use	To
Cardstock Loading Off	Determine and set two-sided printing for all print jobs that specify Cardstock as the paper type.
Recycled Loading Duplex Off	Determine and set two-sided printing for all print jobs that specify Recycled as the paper type.
Glossy Loading Duplex Off	Determine and set two-sided printing for all print jobs that specify Glossy as the paper type.
Heavy Glossy Loading Off	Determine and set two-sided printing for all print jobs that specify Heavy Glossy as the paper type.
Labels Loading Off	Determine and set two-sided printing for all print jobs that specify Labels as the paper type.
Bond Loading Duplex Off	Determine and set two-sided printing for all print jobs that specify Bond as the paper type.
Letterhead Loading Duplex Off	Determine and set two-sided printing for all print jobs that specify Letterhead as the paper type.
Preprinted Loading Duplex Off	Determine and set two-sided printing for all print jobs that specify Preprinted as the paper type.
Colored Loading Duplex Off	Determine and set two-sided printing for all print jobs that specify Colored as the paper type.
Light Loading Duplex Off	Determine and set two-sided printing for all print jobs that specify Light as the paper type.
Heavy Loading Duplex Off	Determine and set two-sided printing for all print jobs that specify Heavy as the paper type.
Rough/Cotton Loading Off	Determine and set two-sided printing for all print jobs that specify Rough/Cotton as the paper type.

Notes:

- Duplex sets the printer default to two-sided printing for every print job unless one-sided printing is selected from Printing Preferences or the Print dialog.
- Off is the factory default setting for all the menus.

Use	To
Custom [x] Loading Duplex Off	Determine and set two-sided printing for all print jobs that specify Custom [x] as the paper type. **Note:** Custom [x] Loading is available only when the custom type is supported.

Notes:

- Duplex sets the printer default to two-sided printing for every print job unless one-sided printing is selected from Printing Preferences or the Print dialog.
- Off is the factory default setting for all the menus.

Custom Types menu

Custom Names menu

Use	To
Custom Name [x]	Specify a custom name for a paper type. This name replaces Custom Type [x] in the printer menus.

Universal Setup menu

Use	To
Units of Measure Inches Millimeters	Identify the units of measure. **Notes:** • Inches is the US factory default setting. • Millimeters is the international factory default setting.
Portrait Width 3–8.5 inches 76–216 mm	Set the width for portrait orientation. **Notes:** • If the width exceeds the maximum, then the printer uses the maximum width allowed. • 8.5 inches is the US factory default setting. You can increase the width in 0.01-inch increments. • 216 mm is the international factory default setting. You can increase the width in 1-mm increments.
Portrait Height 3–14.17 inches 76–360 mm	Set the width for portrait orientation. **Notes:** • If the height exceeds the maximum, then the printer uses the maximum height allowed. • 14 inches is the US factory default setting. You can increase the height in 0.01-inch increments. • 356 mm is the international factory default setting. You can increase the height in 1-mm increments.

Reports menu

Use	To
Menu Settings Page	Print a report on the current printer menu settings. The report also contains information about the status of the supplies and a list of hardware options that are successfully installed.
Device Statistics	Print a report containing printer statistics, such as supply information and number of printed pages.
Network Setup Page	Print a report containing information about the network settings of the printer. **Note:** This menu item appears only in network printers or printers connected to print servers.
Network [x] Setup Page	Print a report containing information about the network settings of the printer. **Note:** This menu item appears only in network printers or printers connected to print servers, and when there is more than one network option installed.
Profiles List	Print a list of profiles stored in the printer.
Print Fonts PCL Fonts PostScript Fonts	Print a report of all the fonts available for the printer language currently set in the printer. **Note:** A separate list is available for PCL and PostScript emulations. Each emulation report contains print samples and information about the available fonts for each language.
Print Directory	Print a list of all the resources stored in an optional flash memory card or printer hard disk. **Notes:** • Job Buffer Size must be set to 100%. • Make sure that the memory card or hard disk is installed and working properly.
Print Demo Demo Page [list of available demo pages]	Print demo files that are available in the firmware, the flash option, and the disk option.
Asset Report	Print a report containing asset information, including the printer serial number and model name. The report contains text and UPC bar codes that can be scanned into an asset database.
Event Log Summary	Print a summary of logged events.

Network/Ports menu

Active NIC menu

Use	To
Active NIC Auto [list of available network cards]	Allow the printer to connect to a network. **Notes:** • Auto is the factory default setting. • This menu item appears only if an optional network adapter is installed.

Standard Network or Network [x] menu

Note: Only active ports appear in this menu.

Use	To
Energy Efficient Ethernet Enable Disable	Reduce power consumption when the printer receives no data from the Ethernet network. **Note:** Enable is the factory default setting.
PCL SmartSwitch On Off	Set the printer to automatically switch to PCL emulation when a print job requires it, regardless of the default printer language. **Notes:** • On is the factory default setting. • If PCL SmartSwitch is disabled, then the printer does not examine incoming data and it uses the default printer language specified in the Setup menu.
PS SmartSwitch On Off	Set the printer to automatically switch to PS emulation when a print job requires it, regardless of the default printer language. **Notes:** • On is the factory default setting. • If PS SmartSwitch is disabled, then the printer does not examine incoming data and it uses the default printer language specified in the Setup menu.
NPA Mode Off Auto	Set the printer to perform the special processing required for bidirectional communication following the conventions defined by the NPA protocol. **Notes:** • Auto is the factory default setting. • The printer automatically restarts when the setting is changed from the control panel.

Use	To
Network Buffer Auto 3KB to [maximum size allowed]	Set the size of the network input buffer. **Notes:** • Auto is the factory default setting. • The maximum size allowed depends on the amount of memory in the printer, the size of the other link buffers, and whether Resource Save is set to On or Off. • To increase the maximum size range for the Network Buffer, disable or reduce the size of the parallel, serial, and USB buffers. • The printer automatically restarts when the setting is changed from the control panel.
Job Buffering Off On Auto	Temporarily store print jobs in the printer hard disk before printing. This menu only appears when a formatted disk is installed. **Notes:** • Off is the factory default setting. • The printer automatically restarts when the setting is changed from the control panel. The menu selection is then updated.
Mac Binary PS On Off Auto	Set the printer to process Macintosh binary PostScript print jobs. **Note:** Auto is the factory default setting.
Standard Network Setup OR Network [x] Setup Reports Network Card TCP/IP IPv6 Wireless AppleTalk	Show and set the printer network settings. **Note:** The Wireless menu appears only when the printer is connected to a wireless network.

Reports menu

To access the menu, navigate to either of the following:

- **Network/Ports** > **Standard Network** > **Standard Network Setup** > **Reports**
- **Network/Ports** > **Network [x]** > **Network [x] Setup** > **Reports**

Use	To
Print Setup Page	Print a report containing information about the network printer settings, such as the TCP/IP address.

Network Card menu

To access the menu, navigate to either of the following:

- **Network/Ports** > **Standard Network** > **Standard Network Setup** > **Network Card**
- **Network/Ports** > **Network [x]** > **Network [x] Setup** > **Network Card**

Use	To
View Card Status Connected Disconnected	View the connection status of the wireless network adapter.
View Card Speed	View the speed of an active wireless network adapter.
Energy Efficient Ethernet Enable Disable	Reduce power consumption when the printer receives no data from the Ethernet network. **Note:** Enable is the factory default setting.
Network Address UAA LAA	View the network addresses.
Job Timeout 0, 10–225 seconds	Set the amount of time it takes for a network print job to be canceled. **Notes:** • 90 seconds is the factory default setting. • A setting value of 0 disables the timeout. • A value between 1 and 9 is invalid.
Banner Page Off On	Allow the printer to print a banner page. **Note:** Off is the factory default setting.

TCP/IP menu

To access the menu, navigate to either of the following:

- **Network/Ports** > **Standard Network** > **Standard Network Setup** > **TCP/IP**
- **Network/Ports** > **Network [x]** > **Network [x] Setup** > **TCP/IP**

Note: This menu is available only in network printers or printers connected to print servers.

Use	To
Set Hostname	Set the current TCP/IP host name. **Note:** This menu is available only in select printer models.
IP Address	View or change the current TCP/IP address. **Note:** Manually setting the IP address sets the Enable DHCP and Enable Auto IP settings to Off. It also sets Enable BOOTP and Enable RARP to Off on systems that support BOOTP and RARP.
Netmask	View or change the current TCP/IP netmask.
Gateway	View or change the current TCP/IP gateway.

Use	To
Enable DHCP On Off	Specify the DHCP address and parameter assignment. **Note:** On is the factory default setting.
Enable RARP On Off	Specify the RARP address assignment setting. **Note:** Off is the factory default setting.
Enable BOOTP On Off	Specify the BOOTP address assignment setting. **Note:** On is the factory default setting.
Enable AutoIP Yes No	Specify the Zero Configuration Networking setting. **Note:** Yes is the factory default setting.
Enable FTP/TFTP Yes No	Enable the built-in FTP server, which lets you send files to the printer using File Transfer Protocol. **Note:** Yes is the factory default setting.
Enable HTTP Server Yes No	Enable the built-in Web server (Embedded Web Server). When enabled, the printer can be monitored and managed remotely using a Web browser. **Note:** Yes is the factory default setting.
WINS Server Address	View or change the current WINS server address.
Enable DDNS Yes No	View or change the current DDNS setting. **Note:** Yes is the factory default setting.
Enable mDNS Yes No	View or change the current mDNS setting. **Note:** Yes is the factory default setting.
DNS Server Address	View or change the current DNS server address.
Backup DNS Server Address [x]	View or change the current DNS server address.
Enable HTTPS Yes No	View or change the current HTTPS setting. **Note:** Yes is the factory default setting.

IPv6 menu

To access the menu, navigate to either of the following:

- **Network/Ports** > **Standard Network** > **Standard Network Setup** > **IPv6**
- **Network/Ports** > **Network [x]** > **Network [x] Setup** > **IPv6**

Note: This menu is available only in network printers or printers that are attached to print servers.

Use	To
Enable IPv6 On Off	Enable IPv6 in the printer. **Note:** On is the factory default setting.
Auto Configuration On Off	Specify whether or not the wireless network adapter accepts the automatic IPv6 address configuration entries provided by a router. **Note:** On is the factory default setting.
View Hostname	Set the host name. **Note:** These settings can be changed only from the Embedded Web Server.
View Address	
View Router Address	
Enable DHCPv6 On Off	Enable DHCPv6 in the printer. **Note:** On is the factory default setting.

Wireless menu

Note: This menu is available only in printers connected to a wireless network or printer models that have a wireless network adapter.

To access the menu, navigate to:

Network/Ports > **Network [x]** > **Network [x] Setup** > **Wireless**

Use	To
Wi-Fi Protected Setup Start Push Button Method Start PIN Method	Establish a wireless network and enable network security. **Notes:** • Start Push Button Method connects the printer to a wireless network when buttons on both the printer and the access point (wireless router) are pressed within a given period of time. • Start PIN Method connects the printer to a wireless network when a PIN on the printer is entered into the wireless settings of the access point.
Enable/Disable WPS Auto-detection Enable Disable	Automatically detect the connection method that an access point with WPS uses—Start Push Button Method or Start PIN Method. **Note:** Disable is the factory default setting.
Network Mode BSS Type Infrastructure Ad hoc	Specify the network mode. **Notes:** • Infrastructure is the factory default setting. This lets the printer access a network using an access point. • Ad hoc configures wireless connection directly between the printer and a computer.
Compatibility 802.11b/g 802.11b/g/n	Specify the wireless standard for the wireless network. **Note:** 802.11b/g/n is the factory default setting.

Use	To
Choose Network	Select an available network for the printer to use.
View Signal Quality	View the quality of the wireless connection.
View Security Mode	View the encryption method for the wireless network.

AppleTalk menu

Note: This menu is available only in printer models connected to a wired network or when an optional network card is installed.

To access the menu, navigate to any of the following:

- **Network/Ports** > **Standard Network** > **Standard Network Setup** > **AppleTalk**
- **Network/Ports** > **Network Setup [x]** > **AppleTalk**

Use	To
Activate Yes No	Enable or disable AppleTalk support. **Note:** Yes is the factory default setting.
View Name	Show the assigned AppleTalk name. **Note:** The name can be changed only from the Embedded Web Server.
View Address	Show the assigned AppleTalk address. **Note:** The address can be changed only from the Embedded Web Server.
Set Zone [list of zones available on the network]	Provide a list of AppleTalk zones available on the network. **Note:** The factory default setting is the default zone for the network. If no default zone exists, then the zone marked with an asterisk (*) is the default setting.

Standard USB menu

Use	To
PCL SmartSwitch On Off	Set the printer to automatically switch to PCL emulation when a print job received through a USB port requires it, regardless of the default printer language. **Notes:** • On is the factory default setting. • When set to Off, the printer does not examine incoming data. The printer uses PostScript emulation if the PS SmartSwitch is set to On. It uses the default printer language specified in the Setup menu if the PS SmartSwitch is set to Off.

Use	To
PS SmartSwitch On Off	Set the printer to automatically switch to PS emulation when a print job received through a USB port requires it, regardless of the default printer language. **Notes:** • On is the factory default setting. • When set to Off, the printer does not examine incoming data. The printer uses PCL emulation if the PCL SmartSwitch is set to On. It uses the default printer language specified in the Setup menu if the PCL SmartSwitch is set to Off.
NPA Mode On Off Auto	Set the printer to perform the special processing required for bidirectional communication following the conventions defined by the NPA protocol. **Notes:** • Auto is the factory default setting. Auto sets the printer to examine data, determine the format, and then process it appropriately. • The printer automatically restarts when changing the setting from the printer control panel. The menu selection is then updated.
USB Buffer Disabled Auto 3K to [maximum size allowed]	Set the size of the USB input buffer. **Notes:** • Auto is the factory default setting. • Disabled turns off job buffering. Any jobs already buffered on the printer hard disk are printed before normal processing resumes. • The USB buffer size value can be changed in 1-K increments. • The maximum size allowed depends on the amount of memory in the printer, the size of the other link buffers, and whether Resource Save is set to On or Off. • To increase the maximum size range for the USB Buffer, disable or reduce the size of the parallel, serial, and network buffers. • The printer automatically restarts when the setting is changed from the printer control panel. The menu selection is then updated.
Job Buffering Off On Auto	Temporarily store print jobs in the printer hard disk before printing. **Notes:** • Off is the factory default setting. • On buffers jobs on the printer hard disk. • Auto buffers print jobs only if the printer is busy processing data from another input port. • Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is then updated.
Mac Binary PS On Off Auto	Set the printer to process Macintosh binary PostScript print jobs. **Notes:** • Auto is the factory default setting. • On processes raw binary PostScript print jobs. • Off filters print jobs using the standard protocol.

Use	To
ENA Address yyy.yyy.yyy.yyy	Set the network address information for an external print server. **Note:** This menu is available only when the printer is attached to an external print server through the USB port.
ENA Netmask yyy.yyy.yyy.yyy	Set the netmask information for an external print server. **Note:** This menu is available only when the printer is attached to an external print server through the USB port.
ENA Gateway yyy.yyy.yyy.yyy	Set the gateway information for an external print server. **Note:** This menu is available only when the printer is attached to an external print server through the USB port.

SMTP Setup menu

Use	To
Primary SMTP Gateway	Specify SMTP server gateway and port information. **Note:** 25 is the default SMTP gateway port.
Primary SMTP Gateway Port	
Secondary SMTP Gateway	
Secondary SMTP Gateway Port	
SMTP Timeout 5–30	Specify the amount of time in seconds before the server stops trying to send an e-mail. **Note:** 30 is the factory default setting.
Reply Address	Specify a reply address of up to 128 characters in the e-mail sent by the printer.
Use SSL Disabled Negotiate Required	Set the printer to use SSL for increased security when connecting to the SMTP server. **Notes:** • Disabled is the factory default setting. • When the Negotiate setting is used, the SMTP server determines if SSL will be used.
SMTP Server Authentication No authentication required Login/Plain CRAM-MD5 Digest-MD5 NTLM Kerberos 5	Specify the type of user authentication required for scan to e-mail privileges. **Note:** “No authentication required” is the factory default setting.

Use	To
Device-Initiated E-mail None Use Device SMTP Credentials	Specify what credentials will be used when communicating to the SMTP server. **Notes:** • None is the factory default setting for Device-Initiated E-mail and User-Initiated E-mail. • "Device Userid" and "Device password" are used to log in to the SMTP server when Use Device SMTP Credentials is selected.
User-Initiated E-mail None Use Device SMTP Credentials Use Session User ID and Password Use Session E-mail address and Password Prompt user	
Device Userid	
Device password	
Kerberos 5 Realm	
NTLM Domain	

Security menu

Miscellaneous Security Settings menu

Use	To
Login Restrictions Login failures Failure time frame Lockout time Panel Login Timeout Remote Login Timeout	Limit the number and time frames of failed login attempts from the printer control panel before *all* users are locked out. **Notes:** • "Login failures" specifies the number of failed login attempts before users are locked out. You can choose from 1 to 10 attempts. The factory default setting is 3. • "Failure time frame" specifies the time frame during which failed login attempts can be made before users are locked out. You can choose from 1 to 60 minutes. The factory default setting is 5 minutes. • "Lockout time" specifies how long users are locked out after exceeding the login failures limit. You can choose from 1 to 60 minutes. The factory default setting is 5 minutes. The printer does not impose a lockout time if you set to 1 minute. • Panel Login Timeout specifies how long the printer remains idle on the home screen before automatically logging the user off. You can choose from 1 to 900 seconds. The factory default setting is 30 seconds. • Remote Login Timeout specifies how long a remote interface remains idle before automatically logging the user off. You can choose from 1 to 120 minutes. The factory default setting is 10 minutes.
Minimum PIN Length 1–16	Limit the digit length of the PIN. **Note:** 4 is the factory default setting.

Confidential Print menu

Use	To
Max Invalid PIN Off 2–10	Limit the number of times an invalid PIN can be entered. **Notes:** • This menu appears only when a formatted, non-defective printer hard disk is installed. • Once the limit is reached, the print jobs for that user name and PIN are deleted.
Confidential Job Expiration Off 1 hour 4 hours 24 hours 1 week	Limit the amount of time a confidential print job stays in the printer before it is deleted. **Notes:** • If the "Confidential Job Expiration" setting is changed while confidential print jobs reside in the printer RAM or printer hard disk, then the expiration time for those print jobs does not change to the new default value. • If the printer is turned off, then all confidential jobs held in the printer RAM are deleted.
Repeat Job Expiration Off 1 hour 4 hours 24 hours 1 week	Set a time limit on how long the printer stores print jobs.
Verify Job Expiration Off 1 hour 4 hours 24 hours 1 week	Set a time limit on how long the printer stores print jobs needing verification.
Reserve Job Expiration Off 1 hour 4 hours 24 hours 1 week	Set a time limit on how long the printer stores print jobs for printing at a later time.
Note: Off is the factory default setting.	

Erase Temporary Data Files menu

Erase Temporary Data Files deletes *only* print job data on the printer hard disk that *are not* currently in use by the file system. All permanent data on the printer hard disk are preserved, such as downloaded fonts, macros, and held jobs.

Note: This menu appears only when a formatted, working printer hard disk is installed.

Use	To
Wiping Mode Auto	Specify the mode for erasing temporary data files.

Use	To
Automatic Method Single pass Multiple pass	Mark all disk space used by a previous print job. This method does not permit the file system to reuse this space until it has been cleared. **Notes:** • "Single pass" is the factory default setting. • Only automatic wiping enables users to erase temporary data files without having to turn off the printer for an extended amount of time. • Highly confidential information should be erased using *only* the Multiple pass method.

Security Audit Log menu

Use	To
Export Log	Let an authorized user export the audit log. **Notes:** • To export the audit log from the printer control panel, attach a flash drive to the printer. • The audit log can be downloaded from the Embedded Web Server and saved on a computer.
Delete Log Yes No	Specify whether or not audit logs are deleted. **Note:** Yes is the factory default setting.
Configure Log Enable Audit Yes No Enable Remote Syslog No Yes Remote Syslog Facility 0–23 Severity of Events to Log 0–7	Specify how and whether or not audit logs are created. **Notes:** • Enable Audit determines if events are recorded in the secure audit log and remote syslog. No is the factory default setting. • Enable Remote Syslog determines if logs are sent to a remote server. No is the factory default setting. • Remote Syslog Facility determines the value used to send logs to the remote syslog server. 4 is the factory default setting. • If the security audit log is activated, then the severity value of each event is recorded. 4 is the factory default setting.

Set Date and Time menu

Use	To
Current Date and Time	View the current date and time settings for the printer.

Use	To
Manually Set Date and Time	Enter the date and time. **Notes:** • Date/Time is set in YYYY-MM-DD HH:MM:SS format. • Manually setting the date and time sets “Enable NTP” (Network Time Protocol) to On.
Time Zone	Select the time zone. **Note:** GMT is the factory default setting.
Automatically Observe DST On Off	Set the printer to use the applicable daylight saving time (DST) start and end times associated with the printer Time Zone setting. **Note:** On is the factory default setting and uses the applicable Daylight Saving Time associated with the Time Zone setting.
Enable NTP On Off	Enable Network Time Protocol, which synchronizes the clocks of devices on a network. **Note:** On is the factory default setting.

Settings menu

Setup menu

Use	To
Printer Language PCL Emulation PS Emulation	Set the default printer language. **Notes:** • PS Emulation is the factory default setting. PS Emulation uses a PS interpreter for processing print jobs. • PCL Emulation uses a PCL interpreter for processing print jobs. • Setting a printer language as the default does not prevent a software program from sending print jobs that use another printer language.
Job Waiting On Off	Determine if print jobs are removed from the print queue when they require unavailable printer options or custom settings. These print jobs are stored in a separate print queue, so other jobs print normally. When the missing information or options are obtained, the stored jobs print. **Notes:** • Off is the factory default setting. • This menu item appears only if a non-read-only printer hard disk is installed. This requirement ensures that stored jobs are not deleted if the printer loses power.

Use	To
Print Area Normal Fit To Page Whole Page	Set the logical and physical printable area. **Notes:** • Normal is the factory default setting. When attempting to print data in the non-printable area defined by the Normal setting, the printer clips the image. • Fit to Page fits the page content into the selected paper size. • Whole Page allows the image to be moved into the non-printable area defined by the Normal setting, but the printer clips the image at the Normal setting boundary. This setting affects only pages printed using a PCL 5e interpreter and has no effect on pages printed using the PCL XL or PostScript interpreter.
Printer Usage Max Yield Max Speed	Set color toner use in printing. **Note:** Max Yield is the factory default setting.
Black Only Mode On Off	Set the printer to print text and graphics using only the black toner cartridge. **Notes:** • Off is the factory default setting. • The setting value does not affect the ability of the printer to generate color output from flash drive print jobs.
Download Target RAM Flash Disk	Set the storage location for downloads. **Notes:** • RAM is the factory default setting. Storing downloads in the RAM is temporary. • Storing downloads in a flash memory or on a printer hard disk places them in permanent storage. Downloads remain in the flash memory or printer hard disk even when the printer is turned off. • This menu item appears only if an optional flash memory or printer hard disk is installed.
Resource Save On Off	Specify how the printer handles temporary downloads, such as fonts and macros stored in the RAM, when the printer receives a job that requires more memory than is available. **Notes:** • Off is the factory default setting. Off sets the printer to retain the downloads only until memory is needed. Downloads are deleted in order to process print jobs. • On sets the printer to retain downloads during language changes and printer resets. If the printer runs out of memory, **`38 Memory full`** appears, but downloads are not deleted.

Use	To
Print All Order Alphabetical Oldest First Newest First	Specify the order in which held and confidential jobs are printed . **Note:** Alphabetical is the factory default setting.

General Settings menu

Use	To
Display Language English Francais Deutsch Italiano Espanol Dansk Norsk Nederlands Svenska Portugues Suomi Russian Polski Greek Magyar Turkce Cesky Simplified Chinese Traditional Chinese Korean Japanese	Set the language of the text appearing on the display. **Note:** Not all languages are available for all models. You may need to install special hardware for some languages.
Show Supply Estimates Show estimates Do not show estimates	View the estimates of the supplies on the control panel, Embedded Web Server, menu settings, and device statistics reports. **Note:** Show estimates is the factory default setting.
Eco-Mode Off Energy Energy/Paper Paper	Minimize the use of energy, paper, or specialty media. **Notes:** • Off is the factory default setting. This resets the printer to its factory default settings. • When setting Eco Mode to Energy or Paper, performance may be affected, but print quality is not.
Quiet Mode Off On	Minimize the printer noise. **Note:** Off is the factory default setting.

Use	To
Run Initial Setup Yes No	Run the setup wizard.
Keyboard Keyboard Type English Francais Francais Canadien Deutsch Italiano Espanol Greek Dansk Norsk Nederlands Svenska Suomi Portugues Russian Polski Swiss German Swiss French Korean Magyar Turkce Cesky Simplified Chinese Traditional Chinese Japanese Custom Key [x]	Specify a language and custom key information for the display keyboard.
Paper Sizes U.S. Metric	Specify the unit of measurement for paper sizes. **Notes:** • U.S. is the factory default setting. • The initial setting is determined by your country or region selection in the initial setup wizard.

Use	To
Displayed Information Left Side Right Side Custom Text [x]	Specify what is displayed on the upper corners of the home screen. For Left side and Right side, select from the following options: None IP Address Hostname Contact Name Location Date/Time mDNS/DDNS Service Name Zero Configuration Name Custom Text [x] Model Name **Notes:** • IP Address is the factory default setting for Left Side. • Date/Time is the factory default setting for Right Side.
Displayed Information (continued) Black Toner Cyan Toner Magenta Toner Yellow Toner Waste Toner Bottle Fuser Transfer Module	Customize the displayed information for the supplies. Select from the following options: When to display Do not display Display Message to display Default Alternate Default [text entry] Alternate [text entry] **Notes:** • Do not display is the factory default setting for When to display. • Default is the factory default setting for Message to display.

Use	To
Displayed Information (continued) Paper Jam Load Paper Service Errors	Customize the displayed information for certain menus. Select from the following options: Display Yes No Message to display Default Alternate Default [text entry] Alternate [text entry] **Notes:** • No is the factory default setting for Display. • Default is the factory default setting for Message to display.
Home screen customization Change Language Search Held Jobs Held Jobs USB Drive Profiles and Apps Bookmarks Jobs by User Forms and Favorites Background and Idle Screen Eco-Settings	Change the icons that appear on the home screen. For each icon, select from the following options: Display Do Not display
Date Format MM-DD-YYYY DD-MM-YYYY YYYY-MM-DD	Format the date. **Note:** MM-DD-YYYY is the U.S. factory default setting. DD-MM-YYYY is the international factory default setting.
Time Format 12 hour A.M./P.M. 24 hour clock	Format the time. **Note:** 12 hour A.M./P.M. is the factory default setting.
Screen Brightness 20–100	Specify the brightness of the display. **Note:** 100 is the factory default setting.
Audio Feedback Button Feedback On Off Volume 1–10	Set the audio volume for the buttons. **Notes:** • On is the factory default setting for Button Feedback. • 5 is the factory default setting for Volume.

Use	To
Show Bookmarks Yes No	Specify whether bookmarks are displayed from the Held Jobs area. **Note:** Yes is the factory default setting.
Web Page Refresh Rate 30–300	Specify the number of seconds between Embedded Web Server refreshes. **Note:** 120 is the factory default setting.
Contact Name	Specify a contact name. **Note:** The contact name is stored on the Embedded Web Server.
Location	Specify the location. **Note:** The location is stored on the Embedded Web Server.
Alarms Alarm Control Cartridge Alarm	Set an alarm when the printer requires user intervention. For each alarm type, select from the following options: Off Single Continuous **Notes:** • Single is the factory default setting. This sounds three quick beeps. • Continuous repeats three beeps every 10 seconds.
Timeouts Standby Mode Disabled 1–240	Set the amount of time in minutes before the printer enters a lower power state. **Note:** 15 is the factory default setting.
Timeouts Sleep Mode Disabled 1–120	Set the amount of time in minutes the printer waits after a job is printed before it goes into a reduced power state. **Notes:** • 20 is the factory default setting. • Lower settings conserve more energy, but may require longer warm-up times. • Select the lowest setting if the printer shares an electrical circuit with room lighting or you notice lights flickering in the room. • Select a high setting if the printer is in constant use. Under most circumstances, this keeps the printer ready to print with minimum warm-up time. • Disabled appears only if Energy Conserve is set to Off.
Timeouts Print with Display Off Allow printing with display off Display on when printing	Print a job with the display turned off. **Note:** Display on when printing is the factory default setting.

Use	To
Timeouts Hibernate Timeout Disabled 20 minutes 1–3 hours 6 hours 1–3 days 1–2 weeks 1 month	Set the amount of time the printer waits before it enters Hibernate mode. **Note:** 3 days is the factory default setting.
Hibernate Timeout on Connection Hibernate Do Not Hibernate	Set the printer to Hibernate mode even if there is an active Ethernet connection. **Notes:** • Hibernate is the factory default setting. • The fax function is available only in some printer models.
Timeouts Screen Timeout 15–300	Set the amount of time in seconds before returning the control panel to a Ready state. **Note:** 30 is the factory default setting.
Timeouts Prolong Screen Timeout On Off	Set the printer to continue a specified job without returning to the home screen when the screen timeout timer expires. **Note:** Off is the factory default setting.
Timeouts Print Timeout Disabled 1–255	Set the amount of time in seconds the printer waits to receive an end-of-job message before canceling the rest of the print job. **Notes:** • 90 is the factory default setting. • When the timer expires, any partially printed page still in the printer is printed, and then the printer checks to see if any new print jobs are waiting. • Print Timeout is available only when using PCL emulation.
Timeouts Wait Timeout Disabled 15–65535	Set the amount of time in seconds the printer waits for additional data before canceling a print job. **Notes:** • 40 is the factory default setting. • Wait Timeout is available only when the printer is using PostScript emulation.
Timeouts Job Hold Timeout 5–255	Set the amount of time the printer waits for user intervention before it holds jobs that require unavailable resources and continues to print other jobs in the print queue. **Notes:** • 30 is the factory default setting. • This menu appears only when a hard disk is installed.

Use	To
Error Recovery Auto Reboot Reboot when idle Reboot always Reboot never	Set the printer to restart when an error occurs. **Note:** Reboot always is the factory default setting.
Error Recovery Max Auto Reboots 1–20	Determine the number of automatic reboots the printer can perform. **Notes:** • 2 is the factory default setting. • If the printer reaches the maximum number of reboots within a certain amount of time, the printer does not continue to reboot, and the error message appears on the display.
Print Recovery Auto Continue Disabled 5–255	Let the printer automatically continue printing from certain offline situations when these are not resolved within the specified time period. **Note:** Disabled is the factory default setting.
Print Recovery Jam Recovery On Off Auto	Specify whether the printer reprints jammed pages. **Notes:** • Auto is the factory default setting. The printer reprints jammed pages unless the memory required to hold the pages is needed for other printer tasks. • On sets the printer to always reprint jammed pages. • Off sets the printer to never reprint jammed pages.
Print Recovery Page Protect Off On	Successfully print a page that may not have printed otherwise. **Notes:** • Off is the factory default setting. This prints a partial page when there is not enough memory to print the whole page. • On sets the printer to process the whole page so that the entire page prints.
Press Sleep Button Do Nothing Sleep Hibernate	Determine how the printer, while in idle state, reacts to a short press of the Sleep button. **Note:** Sleep is the factory default setting.
Press and Hold Sleep Button Do Nothing Sleep Hibernate	Determine how the printer, while in idle state, reacts to a long press of the Sleep button. **Note:** Do Nothing is the factory default setting.

Use	To
Factory Defaults Do Not Restore Restore Now	Use the printer factory default settings. **Notes:** • Do Not Restore is the factory default setting. • Restore Now sets all printer settings to the factory default settings except for the Network/Ports menu settings. All downloads stored in the RAM are deleted. Downloads stored in the flash memory or on a hard disk are not affected.
Export Configuration File Export	Export configuration files to a flash drive.

Flash Drive menu

Use	To
Copies 1–999	Specify a default number of copies for each print job. **Note:** 1 is the factory default setting.
Paper Source Tray [x] Multipurpose Feeder Manual Paper Manual Envelope	Set a default paper source for all print jobs. **Note:** Tray 1 is the factory default setting.
Color Color Black Only	Generate color or black-and-white outputs. **Notes:** • Color is the factory default setting. • This setting can generate color output only from a flash drive print job.
Collate (1,1,1) (2,2,2) (1,2,3) (1,2,3)	Stack the pages of a print job in sequence when printing multiple copies. **Note:** "(1,2,3) (1,2,3)" is the factory default setting.
Sides (Duplex) 1 sided 2 sided	Specify whether prints are on one side or on both sides of the paper. **Note:** "1 sided" is the factory default setting.
Duplex Binding Long Edge Short Edge	Define binding for duplexed pages in relation to paper orientation. **Notes:** • Long Edge is the factory default setting. Long Edge assumes binding along the long edge of the page (left edge for portrait and top edge for landscape). • Short Edge assumes binding along the short edge of the page (top edge for portrait and left edge for landscape).

Use	To
Paper Saver Orientation Auto Landscape Portrait	Specify the orientation of a multiple-page document. **Notes:** • Auto is the factory default setting. The printer chooses between portrait and landscape. • This setting affects jobs only when Paper Saver is set to any value other than Off.
Paper Saver Off 2-Up 3-Up 4-Up 6-Up 9-Up 12-Up 16-Up	Print multiple-page images on one side of the paper. **Notes:** • Off is the factory default setting. • The number selected is the number of page images that will print per side.
Paper Saver Border None Solid	Print a border on each page image when using Paper Saver Border. **Notes:** • None is the factory default setting. • This setting affects jobs only when Paper Saver is set to any value other than Off.
Paper Saver Ordering Horizontal Reverse Horizontal Reverse Vertical Vertical	Specify the positioning of multiple-page images when using Paper Saver Ordering. **Notes:** • Horizontal is the factory default setting. • Positioning depends on the number of page images and whether they are in portrait or landscape orientation. • This setting affects jobs only when Paper Saver is set to any value other than Off.
Separator Sheets Off Between Copies Between Jobs Between Pages	Specify whether blank separator sheets are inserted. **Notes:** • Off is the factory default setting. • Between Copies inserts a blank sheet between each copy of a print job when Collate is set to “(1,2,3) (1,2,3).” When Collate is set to “(1,1,1) (2,2,2),” then a blank page is inserted between each set of printed pages, such as after all page 1's and after all page 2's. • Between Jobs inserts a blank sheet between print jobs. • Between Pages inserts a blank sheet between each page of the print job. This setting is useful when printing transparencies or inserting blank pages in a document for notes.
Separator Sheet Source Tray [x] Multipurpose Feeder	Specify the paper source for separator sheets. **Note:** Tray 1 is the factory default setting.

Use	To
Blank Pages Do Not Print Print	Specify whether blank pages are inserted in a print job. **Note:** Do Not Print is the factory default setting.

Print Settings

Finishing menu

Use	To
Sides (Duplex) 1 sided 2 sided	Specify whether two-sided (duplex) printing is set as the default for all print jobs. **Notes:** • "1 sided" is the factory default setting. • You can set two-sided printing from the printer software. For Windows users: Click **File** > **Print**, and then click **Properties**, **Preferences**, **Options**, or **Setup**. For Macintosh users: Choose **File** > **Print**, and then adjust the settings from the Print dialog and pop-up menus.
Duplex Binding Long Edge Short Edge	Define binding for duplexed pages in relation to page orientation. **Notes:** • Long Edge is the factory default setting. This assumes binding along the long edge of the page (left edge for portrait and top edge for landscape). • Short Edge assumes binding along the short edge of the page (top edge for portrait and left edge for landscape).
Copies 1–999	Specify the default number of copies for each print job. **Note:** 1 is the factory default setting.
Blank Pages Do Not Print Print	Specify whether blank pages are inserted in a print job. **Note:** Do Not Print is the factory default setting.
Collate (1,1,1) (2,2,2) (1,2,3) (1,2,3)	Stack the pages of a print job in sequence when printing multiple copies. **Note:** "(1,2,3) (1,2,3)" is the factory default setting.

Use	To
Separator Sheets Off Between Copies Between Jobs Between Pages	Specify whether blank separator sheets are inserted. **Notes:** • Off is the factory default setting. • Between Copies inserts a blank sheet between each copy of a print job if Collate is set to "(1,2,3) (1,2,3)." If Collate is set to "(1,1,1) (2,2,2)," then a blank page is inserted between each set of printed pages, such as after all page 1's and after all page 2's. • Between Jobs inserts a blank sheet between print jobs. • Between Pages inserts a blank sheet between each page of a print job. This setting is useful when printing transparencies or when inserting blank pages in a document.
Separator Source Tray [x] Multipurpose Feeder	Specify the paper source for the separator sheet. **Note:** Tray 1 (standard tray) is the factory default setting.
Paper Saver Off 2-Up 3-Up 4-Up 6-Up 9-Up 12-Up 16-Up	Print multiple pages on a single sheet of paper. **Notes:** • Off is the factory default setting. • When the number of pages per sheet is selected, each page is scaled so that the number of pages you want can be displayed on the sheet.
Paper Saver Ordering Horizontal Reverse Horizontal Reverse Vertical Vertical	Specify the order in which pages are printed on a single sheet when using Paper Saver. **Notes:** • Horizontal is the factory default setting. • Positioning depends on the number of page images and whether they are in portrait or in landscape orientation.
Paper Saver Orientation Auto Landscape Portrait	Specify the orientation in which pages are printed on a single sheet. **Note:** Auto is the factory default setting. The printer chooses between portrait and landscape.
Paper Saver Border None Solid	Print a border when using Paper Saver. **Note:** None is the factory default setting.

Quality menu

Use	To
Print Mode Color Black Only	Specify whether to print images in color. **Note:** Color is the factory default setting.

Use	To
Color Correction Auto Off Manual	Adjust the color output on the printed page. **Note:** Auto is the factory default setting.
Print Resolution 1200 dpi 4800 CQ	Specify the output resolution in dots per inch (dpi) or in color quality (CQ). **Note:** 4800 CQ is the factory default setting.
Toner Darkness 1–5	Lighten or darken the output. **Note:** 4 is the factory default setting.
Enhance Fine Lines On Off	Enable a print mode preferable for files such as architectural drawings, maps, electrical circuit diagrams, and flow charts. **Note:** Off is the factory default setting.
Color Saver On Off	Reduce the amount of toner used for graphics and images. **Notes:** • Off is the factory default setting. • On overrides the Toner Darkness setting.
RGB Brightness -6 to 6	Adjust the brightness of the output. **Note:** 0 is the factory default setting.
RGB Contrast 0–5	Adjust the contrast of the output. **Note:** 0 is the factory default setting.
RGB Saturation 0–5	Adjust saturation in color outputs. **Note:** 0 is the factory default setting.
Color Balance Cyan -5 to 5 Magenta -5 to 5 Yellow -5 to 5 Black -5 to 5 Reset Defaults	Enable an equal balance of colors in the output. **Note:** 0 is the factory default setting.

Use	To
Color Samples sRGB Display sRGB Vivid Display—True Black Vivid Off—RGB US CMYK Euro CMYK Vivid CMYK Off—CMYK	Print sample pages for each of the RGB and CMYK color conversion tables used in the printer.
Manual Color RGB Image RGB Text RGB Graphics	Customize the RGB color conversions. Select from the following options: Vivid sRGB Display Display—True Black sRGB Vivid Off **Notes:** • sRGB Display is the factory default setting for RGB Image. • sRGB Vivid is the factory default setting for RGB Text and RGB Graphics.
Manual Color (continued) CMYK Image CMYK Text CMYK Graphics	Customize the CMYK color conversions. Select from the following options: US CMYK Euro CMYK Vivid CMYK Off **Note:** US CMYK is the U.S. factory default setting. Euro CMYK is the international factory default setting.
Color Adjust	Initiate a recalibration of color conversion tables and allow the printer to make adjustments for color variations in output.
Spot Color Replacement	Assign specific CMYK values to named spot colors. **Note:** This menu is available only on the Embedded Web Server.
RGB Replacement	Match the colors of the output with that of the original document. **Note:** This menu is available only on the Embedded Web Server.

Job Accounting menu

Note: This menu item appears only when a printer hard disk is installed. Make sure that the hard disk is not read/write- or write-protected.

Use	To
Job Accounting Log Off On	Set if the printer creates a log of the print jobs it receives. **Note:** Off is the factory default setting.
Job Accounting Utilities	Print and delete log files or export them to a flash drive.
Accounting Log Frequency Daily Weekly Monthly	Set how often a log file is created. **Note:** Monthly is the factory default setting.
Log Action at End of Frequency None E-mail Current Log E-mail & Delete Current Log Post Current Log Post & Delete Current Log	Set how the printer responds when the frequency threshold expires. **Note:** None is the factory default setting.
Log Near Full Level Off 1–99	Specify the maximum size of the log file before the printer executes the Log Action at Near Full. **Note:** 5 is the factory default setting.
Log Action at Near Full None E-mail Current Log E-mail & Delete Current Log E-mail & Delete Oldest Log Post Current Log Post & Delete Current Log Post & Delete Oldest Log Delete Current Log Delete Oldest Log Delete All Logs Delete All But Current	Set how the printer responds when the hard disk is nearly full. **Notes:** • None is the factory default setting. • The value defined in Log Near Full Level determines when this action is triggered.
Log Action at Full None E-mail & Delete Current Log E-mail & Delete Oldest Log Post & Delete Current Log Post & Delete Oldest Log Delete Current Log Delete Oldest Log Delete All Logs Delete All But Current	Set how the printer responds when disk usage reaches the maximum limit (100MB). **Note:** None is the factory default setting.
URL to Post Logs	Set where the printer posts job accounting logs.
E-mail to Send Logs	Specify the e-mail address to which the device sends job accounting logs.

Use	To
Log File Prefix	Specify the prefix you want for the log file name. **Note:** The current host name defined in the TCP/IP menu is used as the default log file prefix.

Utilities menu

Use	To
Remove Held Jobs Confidential Held Not Restored All	Delete confidential and held jobs from the printer hard disk. **Notes:** • Selecting a setting affects only print jobs that are resident in the printer. Bookmarks, print jobs on flash drives, and other types of held jobs are not affected. • Not Restored removes all Print and Hold jobs that are *not* restored from the printer hard disk or memory.
Format Flash Yes No	Format the flash memory. **Warning—Potential Damage:** Do not turn off the printer while the flash memory is being formatted. **Notes:** • Yes deletes all data stored in flash memory. • No cancels the format request. • Flash memory refers to the memory added by installing a flash memory card in the printer. • The flash memory option card must not be read/write- or write-protected. • This menu item appears only when a non-defective flash memory card is installed.
Delete Downloads on Disk Delete Now Do Not Delete	Delete downloads from the printer hard disk, including all held jobs, buffered jobs, and parked jobs. **Notes:** • Delete Now sets the printer to delete the downloads and allows the display to return to the originating screen after the deletion. • Do Not Delete sets the printer display to return to the main Utilities menu for touch-screen printer models. When selected in non-touch-screen printer models, Do Not Delete sets the printer to return to the originating screen after the deletion.
Activate Hex Trace	Assist in isolating the source of a print job problem. **Notes:** • When activated, all data sent to the printer is printed in hexadecimal and character representation, and control codes are not executed. • To exit or deactivate Hex Trace, turn off or reset the printer.

Use	To
Coverage Estimator Off On	Provide an estimate of the percentage coverage of toner on a page. The estimate is printed on a separate page at the end of each print job. **Note:** Off is the factory default setting.

XPS menu

Use	To
Print Error Pages Off On	Print a page containing information on errors, including XML markup errors. **Note:** Off is the factory default setting.

PDF menu

Use	To
Scale to Fit Yes No	Scale page content to fit the selected paper size. **Note:** No is the factory default setting.
Annotations Do Not Print Print	Print annotations in a PDF. **Note:** Do Not Print is the factory default setting.

PostScript menu

Use	To
Print PS Error On Off	Print a page containing the PostScript error. **Note:** Off is the factory default setting.
Lock PS Startup Mode On Off	Enable users to disable the SysStart file. **Note:** Off is the factory default setting.
Font Priority Resident Flash/Disk	Establish the font search order. **Notes:** • Resident is the factory default setting. • This menu item appears only when a formatted, non-defective flash memory option card or printer hard disk is installed. • Make sure the flash memory option or printer hard disk is not read/write-, write-, or password-protected. • Job Buffer Size must not be set to 100%.

Use	To
Image Smoothing On Off	Enhance the contrast and sharpness of low-resolution images and smoothen their color transitions. **Notes:** • Off is the factory default setting. • Image Smoothing has no effect on images that are 300 dpi or higher in resolution.

PCL Emul menu

Use	To
Font Source Resident Download All	Specify the set of fonts used in the Font Name menu. **Notes:** • "Resident" is the factory default setting. It shows the factory default set of fonts downloaded in the RAM. • "Download" shows all the fonts downloaded in the RAM. • "All" shows all fonts available to any option.
Font Name Courier 10	Identify a specific font and where it is stored. **Note:** Courier 10 is the factory default setting.
Symbol Set 10U PC-8 12U PC-850	Specify the symbol set for each font name. **Notes:** • 10U PC-8 is the U.S. factory default setting. 12U PC-850 is the international factory default setting. • A symbol set is a set of alphabetical and numeric characters, punctuation, and special symbols. Symbol sets support the different languages or specific programs, such as math symbols for scientific text. Only the supported symbol sets are shown.
PCL Emulation Settings Point Size 1.00–1008.00	Change the point size for scalable typographic fonts. **Notes:** • 12 is the factory default setting. • Point size refers to the height of the characters in the font. One point equals approximately 0.014 of an inch. This can be increased or decreased in 0.25-point increments.
PCL Emulation Settings Pitch 0.08–100.00	Specify the font pitch for scalable monospaced fonts. **Notes:** • 10 is the factory default setting. • Pitch refers to the number of fixed-space characters per inch (cpi). This can be increased or decreased in 0.01-cpi increments. • For non-scalable monospaced fonts, the pitch appears on the display but cannot be changed.

Use	To
PCL Emulation Settings Orientation Portrait Landscape	Specify the orientation of text and graphics on a page. **Notes:** • Portrait is the factory default setting. It prints text and graphics parallel to the short edge of the page. • Landscape prints text and graphics parallel to the long edge of the page.
PCL Emulation Settings Lines per Page 1–255	Specify the number of lines that print on each page. **Notes:** • 60 is the U.S. factory default setting. 64 is the international default setting. • The printer sets the amount of space between each line based on the Lines per Page, Paper Size, and Orientation settings. Select the paper size and orientation before setting Lines per Page.
PCL Emulation Settings A4 Width 198 mm 203 mm	Set the printer to print on A4-size paper. **Notes:** • 198 mm is the factory default setting. • The 203-mm setting sets the width of the page to allow the printing of eighty 10-pitch characters.
PCL Emulation Settings Auto CR after LF On Off	Specify whether the printer automatically performs a carriage return (CR) after a line feed (LF) control command. **Note:** Off is the factory default setting.
PCL Emulation Settings Auto LF after CR On Off	Specify whether the printer automatically performs a line feed (LF) after a carriage return (CR) control command. **Note:** Off is the factory default setting.
Tray Renumber Assign Multipurpose Feeder Off None 0–199 Assign Tray [x] Off None 0–199 Assign Manual Paper Off None 0–199 Assign Manual Envelope Off None 0–199	Configure the printer to work with printer software or programs that use different source assignments for trays and feeders. **Notes:** • “Off” is the factory default setting. • “None” ignores the Select Paper Feed command. This option appears only when it is selected by the PCL 5e interpreter. • “0–199” allows a custom setting to be assigned.

Use	To
Tray Renumber View Factory Defaults MPF Default = 8 T1 Default = 1 T2 Default = 4 T3 Default = 5 T4 Default = 20 T5 Default = 21 Env Default = 6 MPaper Default = 2 MEnv Default = 3	Show the factory default setting assigned to each tray or feeder.
Tray Renumber Restore Defaults Yes No	Restore all tray and feeder assignments to the factory default settings.

HTML menu

Use		To
Font Name Albertus MT Antique Olive Apple Chancery Arial MT Avant Garde Bodoni Bookman Chicago Clarendon Cooper Black Copperplate Coronet Courier Eurostile Garamond Geneva Gill Sans Goudy Helvetica Hoefler Text Intl CG Times Intl Courier Intl Univers	Joanna MT Letter Gothic Lubalin Graph Marigold MonaLisa Recut Monaco New CenturySbk New York Optima Oxford Palatino StempelGaramond Taffy Times TimesNewRoman Univers Zapf Chancery NewSansMTCS NewSansMTCT New SansMTJA NewSansMTKO	Set the default font for HTML documents. **Note:** The Times font is used in HTML documents that do not specify a font.

Use	To
Font Size 1–255 pt	Set the default font size for HTML documents. **Notes:** • 12 pt is the factory default setting. • Font size can be increased in 1-point increments.
Scale 1–400%	Scale the default font for HTML documents. **Notes:** • 100% is the factory default setting. • Scaling can be increased in 1% increments.
Orientation Portrait Landscape	Set the page orientation for HTML documents. **Note:** Portrait is the factory default setting.
Margin Size 8–255 mm	Set the page margin for HTML documents. **Notes:** • 19 mm is the factory default setting. • Margin size can be increased in 1-mm increments.
Backgrounds Do Not Print Print	Specify whether to print backgrounds on HTML documents. **Note:** Print is the factory default setting.

Image menu

Use	To
Auto Fit On Off	Select the optimal paper size, scaling, and orientation. **Note:** On is the factory default setting. It overrides scaling and orientation settings for some images.
Invert On Off	Invert bitonal monochrome images. **Notes:** • Off is the factory default setting. • This setting does not apply to GIF or JPEG images.
Scaling Anchor Top Left Best Fit Anchor Center Fit Height/Width Fit Height Fit Width	Scale the image to fit the selected paper size. **Notes:** • Best Fit is the factory default setting. • When Auto Fit is set to On, Scaling is automatically set to Best Fit.

Use	To
Orientation Portrait Landscape Reverse Portrait Reverse Landscape	Set the image orientation. **Note:** Portrait is the factory default setting.

Help menu

The Help menu consists of a series of Help pages that are stored in the printer as PDFs. They contain information about using the printer and performing printing tasks.

English, French, German, and Spanish translations are stored in the printer.

Menu item	Description
Print All Guides	Prints all the guides
Media Guide	Provides a list of the paper sizes supported in trays and feeders
Menu Map	Provides a list of the printer control panel menus and settings
Printing Guide	Provides information about loading paper and other specialty media
Color Quality Guide	Provides information about solving color quality issues
Print Quality	Provides information about solving print quality issues
Moving Guide	Provides instructions for safely moving the printer
Connection Guide	Provides information about connecting the printer locally (USB) or to a network
Print Defects Guide	Provides information about resolving print defects

Saving money and the environment

We are committed to environmental sustainability and are continually improving our printers to reduce their impact on the environment.

Saving paper and toner

Studies show that as much as 80% of the carbon footprint of a printer is related to paper usage. You can significantly reduce your carbon footprint by using recycled paper and the following printing suggestions, such as printing on both sides of the paper and printing multiple pages on one side of a single sheet of paper.

For information on how you can quickly save paper and energy using one printer setting, see “Using Eco-Mode” on page 112.

Using recycled paper

As an environmentally conscious company, we support the use of recycled office paper produced specifically for use in laser printers. For more information on recycled papers that work well with your printer, see “Using recycled paper and other office papers” on page 54.

Conserving supplies

Use both sides of the paper

If your printer model supports duplex printing, then you can control whether print appears on one or two sides of the paper by selecting **2-sided printing** from the Print dialog.

Place multiple pages on one sheet of paper

You can print up to 16 consecutive pages of a multiple-page document onto one side of a single sheet of paper by selecting a setting from the Multipage printing (N-Up) section of the Print dialog screen.

Check your first draft for accuracy

Before printing or making multiple copies of a document:

- Use the preview feature, which you can select from the Print dialog to see how the document will look like before you print it.
- Print one copy of the document to check its content and format for accuracy.

Avoid paper jams

Correctly set the paper type and size to avoid paper jams. For more information, see “Avoiding jams” on page 144.

Saving energy

Using Eco-Mode

1 Open a Web browser, and then type the printer IP address in the address field.

Notes:

- View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the Web page correctly.

2 Click **Settings** > **General Settings** > **Eco-Mode** > select a setting

Use	To
Off	Use the factory default settings for all settings associated with Eco-Mode. Off supports the performance specifications of the printer.
Energy	Reduce energy use, especially when the printer is idle. • Printer engine motors do not start until it is ready to print. You may notice a short delay before the first page is printed. • The printer enters Sleep mode after one minute of inactivity.
Energy/Paper	Use all the settings associated with Energy and Paper modes.
Plain Paper	• Enable the automatic two-sided (duplex) feature. • Turn off print log features.

3 Click **Submit**.

Reducing printer noise

Enable Quiet Mode to reduce printer noise.

1 Open a Web browser, and then type the printer IP address in the address field.

Notes:

- View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the Web page correctly.

2 Click **Settings** > **General Settings** > **Quiet Mode** > select a setting

Use	To
On	Reduce printer noise. **Notes:** • Print jobs are processed at a reduced speed. • Printer engine motors do not start until a document is ready to print. There will be a short delay before the first page is printed.
Off	Use factory default settings. **Note:** This setting supports the performance specifications of the printer.

3 Click **Submit**.

Adjusting Sleep mode

1 From the home screen, navigate to:

> **Settings** > **General Settings** > **Timeouts** > **Sleep Mode**

2 In the Sleep Mode field, select the number of minutes the printer is idle before it enters Sleep mode.

3 Apply the changes.

Using Hibernate mode

Hibernate is an ultra-low-power saving mode.

Notes:

- Three days is the default amount of time before the printer enters Hibernate mode.
- Make sure to wake the printer from Hibernate mode before sending a print job. A hard reset or a long press of the Sleep button wakes the printer from Hibernate mode.
- If the printer is in Hibernate mode, then the Embedded Web Server is disabled.

1 From the home screen, navigate to:

> **Settings** > **General Settings**

2 Touch **Press Sleep Button** or **Press and Hold Sleep Button**.

3 Touch **Hibernate** > .

Setting Hibernate Timeout

Hibernate Timeout lets you set the amount of time the printer waits after a print job is processed before it goes into a reduced power state.

Using the Embedded Web Server

1 Open a Web browser, and then type the printer IP address in the address field.

Notes:

- View the printer IP address in the TCP/IP section in the Network/Ports menu. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the Web page correctly.

2 Click **Settings** > **General Settings** > **Timeouts**.

3 From the Hibernate Timeout menu, select the number of hours, days, weeks, or months you want for the printer to wait before it goes into a reduced power state.

4 Click **Submit**.

Using the printer control panel

1 From the printer control panel, navigate to:

> **Settings** > **General Settings** > **Timeouts** > **Hibernate Timeout**

2 Select the amount of time the printer waits after a print job is processed before it enters Hibernate mode.

3 Touch .

Using Schedule Power Modes

Schedule Power Modes lets you schedule when the printer goes into a reduced power state or into the Ready state.

Note: This feature is available only in network printers or printers connected to print servers.

Using the Embedded Web Server

1 Open a Web browser, and then type the printer IP address in the address field.

Notes:

- View the printer IP address in the TCP/IP section in the Network/Ports menu. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the Web page correctly.

2 Click **Settings** > **General Settings** > **Schedule Power Modes**.

3 From the Action menu, select the power mode.

4 From the Time menu, select the time.

5 From the Day(s) menu, select the day or days.

6 Click **Add**.

Adjusting the brightness of the printer display

To save energy, or if you have trouble reading from the display, adjust the brightness of the display.

Using the Embedded Web Server

1 Open a Web browser, and then type the printer IP address in the address field.

Notes:

- The IP address is located on the upper portion of the home screen. It appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the Web page correctly.

2 Select **Settings** > **General Settings**.

3 In the Screen Brightness field, enter the brightness percentage you want for the display.

4 Apply the changes.

Using the control panel

1 From the home screen, navigate to:

> **Settings** > **General Settings**

2 In the Screen Brightness field, enter the brightness percentage you want for the display.

3 Apply the changes.

Recycling

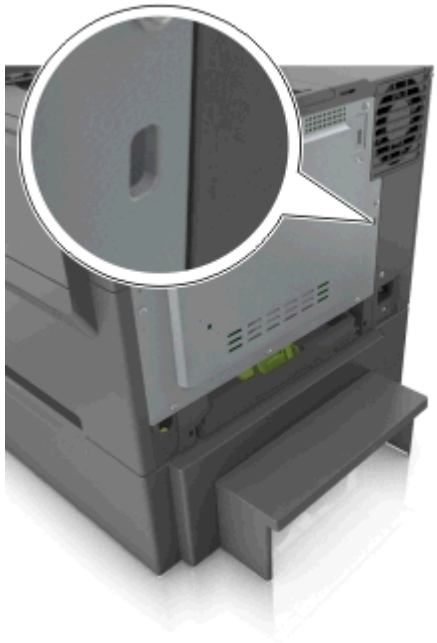
Recycling packaging, hardware, and other printing supplies

Packaging, hardware, and supplies may be recycled through your local recycling center. Contact your local recycling center to determine the items they accept.

Securing the printer

Using the security lock feature

The printer is equipped with a security lock feature. Attach a security lock compatible with most laptop computers in the location shown to secure the printer in place.



Statement of Volatility

Your printer contains various types of memory that can store device and network settings, and user data.

Type of memory	Description
Volatile memory	Your printer uses standard *random access memory* (RAM) to temporarily buffer user data during simple print jobs.
Non-volatile memory	Your printer may use two forms of non-volatile memory: EEPROM and NAND (flash memory). Both types are used to store the operating system, device settings, network information and bookmark settings, and embedded solutions.
Hard disk memory	Some printers have a hard disk drive installed. The printer hard disk is designed for printer-specific functionality. This lets the printer retain buffered user data from complex print jobs, as well as form data, and font data.

Erase the content of any installed printer memory in the following circumstances:

- The printer is being decommissioned.
- The printer hard disk is being replaced.

- The printer is being moved to a different department or location.
- The printer is being serviced by someone from outside your organization.
- The printer is being removed from your premises for service.
- The printer is being sold to another organization.

Disposing of a printer hard disk

Note: Some printer models may not have a printer hard disk installed.

In high-security environments, it may be necessary to take additional steps to make sure that confidential data stored in the printer hard disk cannot be accessed when the printer—or its hard disk—is removed from your premises.

- **Degaussing**—Flushes the hard disk with a magnetic field that erases stored data
- **Crushing**—Physically compresses the hard disk to break component parts and render them unreadable
- **Milling**—Physically shreds the hard disk into small metal bits

Note: Most data can be erased electronically, but the only way to guarantee that all data are completely erased is to physically destroy each hard disk where data is stored.

Erasing volatile memory

The volatile memory (RAM) installed in your printer requires a power source to retain information. To erase the buffered data, simply turn off the printer.

Erasing non-volatile memory

Erase individual settings, device and network settings, security settings, and embedded solutions by following these steps:

1. Turn off the printer.
2. Hold down **2** and **6** on the keypad while turning the printer on. Release the buttons only when the screen with the progress bar appears.

   The printer performs a power-on sequence, and then the Configuration menu appears. When the printer is fully turned on, a list of functions appears on the printer display instead of the standard home screen icons.
3. Touch **Wipe All Settings**.

   The printer will restart several times during this process.

   Note: Wipe All Settings securely removes device settings, solutions, jobs, and passwords from the printer memory.
4. Touch **Back** > **Exit Config Menu**.

The printer will perform a power-on reset, and then return to normal operating mode.

Erasing printer hard disk memory

Notes:

- Some printer models may not have a printer hard disk installed.
- Configuring Erase Temporary Data Files in the printer menus lets you remove residual confidential material left by print jobs by securely overwriting files that have been marked for deletion.

Using the printer control panel

1. Turn off the printer.
2. Hold down **2** and **6** while turning the printer on. Release the buttons only when the screen with the progress bar appears.

   The printer performs a power-on sequence, and then the Configuration menu appears. When the printer is fully turned on, a list of functions appears on the printer display.
3. Press the up or down arrow button until **Wipe Disk** appears, and then select one of the following:
   - **Wipe disk (fast)**—This lets you overwrite the disk with all zeroes in a single pass.
   - **Wipe disk (secure)**—This lets you overwrite the disk with random bit patterns several times, followed by a verification pass. A secure overwrite is compliant with the DoD 5220.22-M standard for securely erasing data from a hard disk. Highly confidential information should be wiped using this method.
4. Press the up or down arrow button until **Yes** appears, and then proceed with disk wiping.

   Notes:

   - A status bar will indicate the progress of the disk wiping task.
   - Disk wiping can take from several minutes to more than an hour, during which the printer will be unavailable for other user tasks.
5. Navigate to:

   Back > **Exit Config Menu**

The printer will perform a power-on reset, and then return to normal operating mode.

Configuring printer hard disk encryption

Enable hard disk encryption to prevent loss of sensitive data in the event the printer or its hard disk is stolen.

Note: Some printer models may not have a printer hard disk installed.

Using the Embedded Web Server

1. Open a Web browser, and then type the printer IP address in the address field.

   Notes:

   - View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.

- If you are using a proxy server, then temporarily disable it to load the Web page correctly.

2 Click **Settings** > **Security** > **Disk Encryption**.

Note: Disk Encryption appears in the Security Menu only when a formatted, non-defective printer hard disk is installed.

3 From the Disk encryption menu, select **Enable**.

Notes:

- Enabling disk encryption will erase the contents of the printer hard disk.
- Disk encryption can take from several minutes to more than an hour, during which the printer will be unavailable for other user tasks.

4 Click **Submit**.

Using the printer control panel

1 Turn off the printer.

2 Hold down **2** and **6** while turning the printer on. Release the buttons only when the screen with the progress bar appears.

The printer performs a power-on sequence, and then the Configuration menu appears. When the printer is fully turned on, a list of functions appears on the printer display.

3 Touch **Disk Encryption** > **Enable**.

Note: Enabling disk encryption will erase the contents of the printer hard disk.

4 Touch **Yes** to proceed with disk wiping.

Notes:

- Do not turn off the printer during the encryption process. Doing so may result in loss of data.
- Disk encryption can take from several minutes to more than an hour, during which the printer will be unavailable for other user tasks.
- A status bar will indicate the progress of the disk wiping task. After the disk has been encrypted, the printer will return to the Enable/Disable screen.

5 Touch **Back** > **Exit Config Menu**.

The printer will perform a power-on reset, and then return to normal operating mode.

Maintaining the printer

Warning—Potential Damage: Failure to maintain optimum printer performance periodically, or to replace parts and supplies, may cause damage to your printer.

Cleaning printer parts

Cleaning the printer

Note: You may need to perform this task after every few months.

Warning—Potential Damage: Damage to the printer caused by improper handling is not covered by the printer warranty.

1. Make sure that the printer is turned off and unplugged from the electrical outlet.

   CAUTION—SHOCK HAZARD: To avoid the risk of electrical shock when cleaning the exterior of the printer, unplug the power cord from the electrical outlet and disconnect all cables from the printer before proceeding.

2. Remove paper from the standard bin, multipurpose feeder, and manual feeder.
3. Remove any dust, lint, and pieces of paper around the printer using a soft brush or vacuum.
4. Dampen a clean, lint-free cloth with water, and use it to wipe the outside of the printer.

   Warning—Potential Damage: Do not use household cleaners or detergents, as they may damage the finish of the printer.

5. Make sure all areas of the printer are dry before sending a new print job.

Checking the status of supplies

Checking the status of parts and supplies on the printer control panel

From the home screen, navigate to:

Status/Supplies > **View Supplies**

Checking the status of parts and supplies from the Embedded Web Server

Note: Make sure the computer and the printer are connected to the same network.

1. Open a Web browser, and then type the printer IP address in the address field.

   Notes:

   - View the printer IP address on the home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.

- If you are using a proxy server, then temporarily disable it to load the Web page correctly.

2 Click **Device Status** > **More Details**.

Estimated number of remaining pages

The estimated number of remaining pages is based on the recent printing history of the printer. Its accuracy may vary significantly and is dependent on many factors, such as actual document content, print quality settings, and other printer settings.

The accuracy of the estimated number of remaining pages may decrease when the actual printing consumption is different from the historical printing consumption. Consider the variable level of accuracy before purchasing or replacing supplies based on the estimate. Until an adequate print history is obtained on the printer, initial estimates assume future supplies consumption based on the International Organization for Standardization* test methods and page content.

* Average continuous black or composite CMY declared cartridge yield in accordance with ISO/IEC 19798.

Ordering supplies

Note: All life estimates for printer supplies assume printing on letter- or A4-size plain paper.

Ordering toner cartridges

To order toner cartridges, contact the place where you purchased the printer.

Ordering a waste toner bottle

To order a waste toner bottle, contact the place where you purchased the printer.

Storing supplies

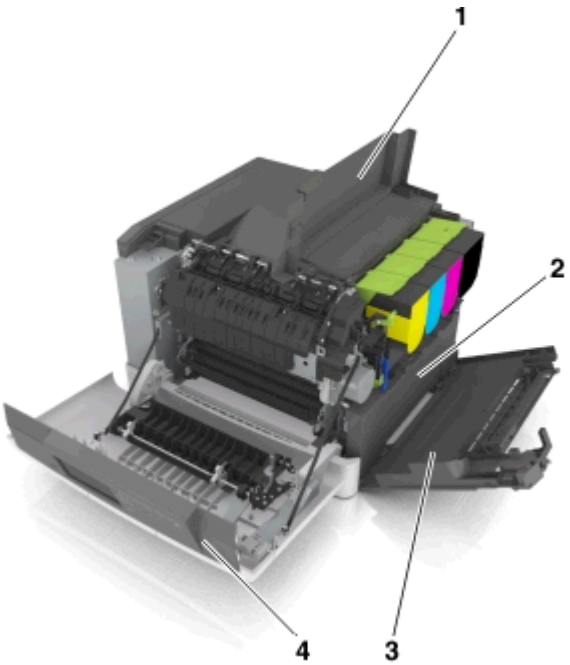
Choose a cool, clean storage area for the printer supplies. Store supplies right side up in their original packing until you are ready to use them.

Do not expose supplies to:

- Direct sunlight
- Temperatures above 35°C (95°F)
- High humidity above 80%
- Salty air
- Corrosive gases
- Heavy dust

Replacing supplies

Replacing the waste toner bottle



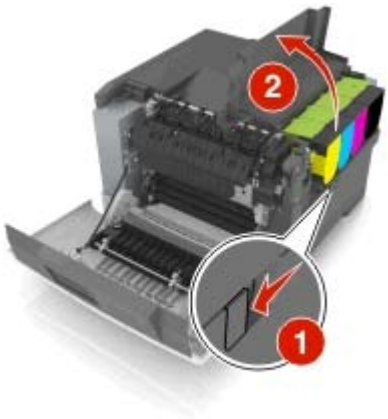
1	Top door
2	Waste toner bottle
3	Right side cover
4	Front door

1 Unpack the replacement waste toner bottle.

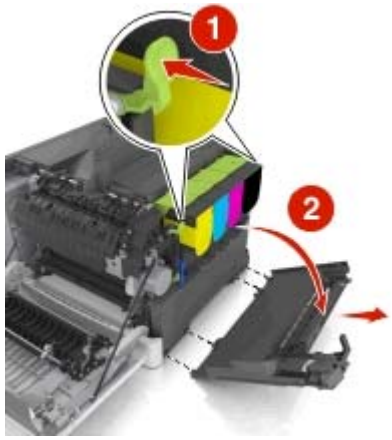
2 Open the front door.

CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

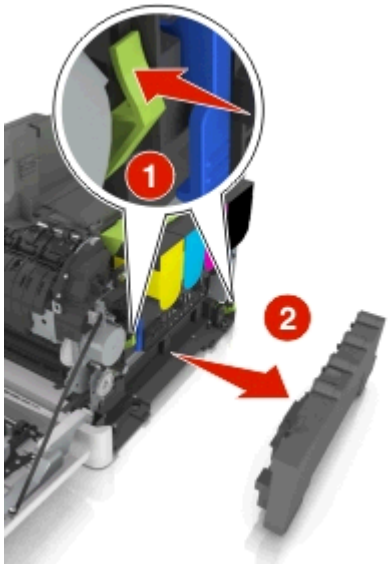
3 Open the top door.



4 Remove the right side cover.

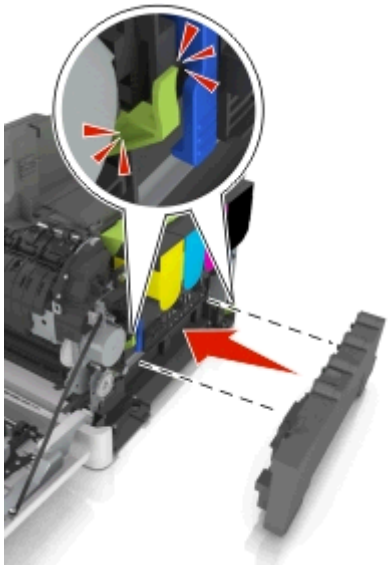


5 Remove the waste toner bottle.

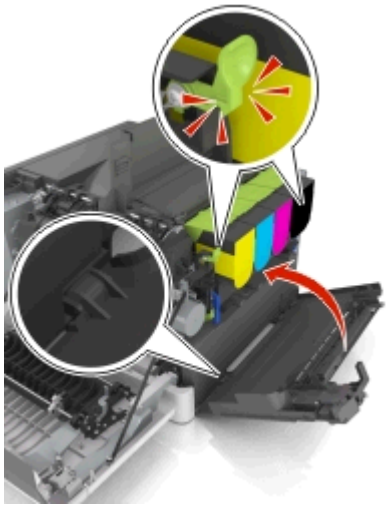


6 Pack the used waste toner bottle.

7 Insert the replacement waste toner bottle.



8 Insert the right side cover.



9 Close the top door.

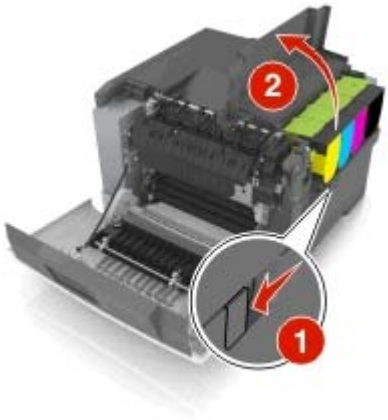
10 Close the front door.

Replacing a black and color imaging kit

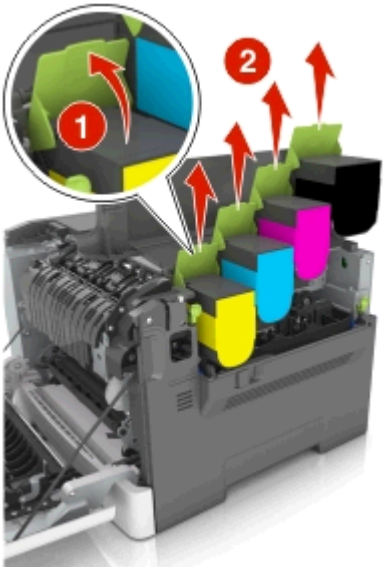
1 Open the front door.

CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

2 Open the top door.

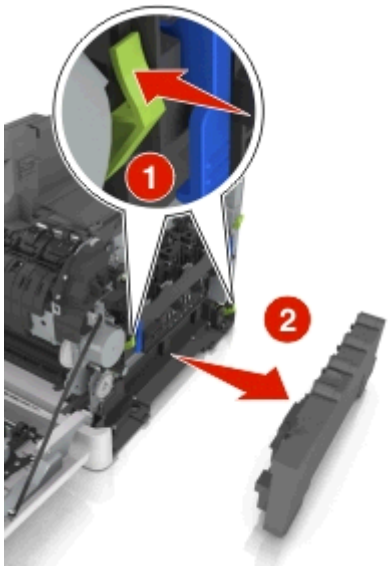


3 Remove the toner cartridges.

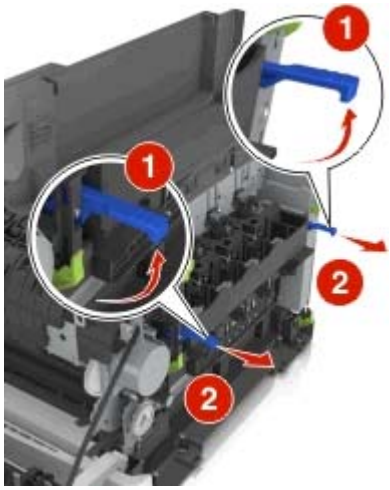


4 Remove the right side cover.

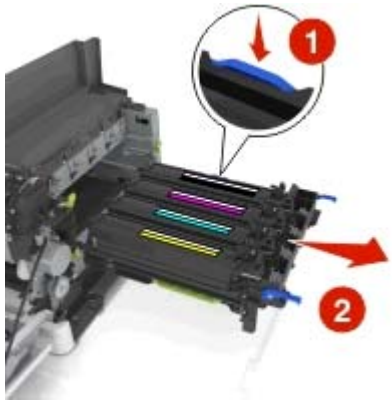
5 Remove the waste toner bottle.



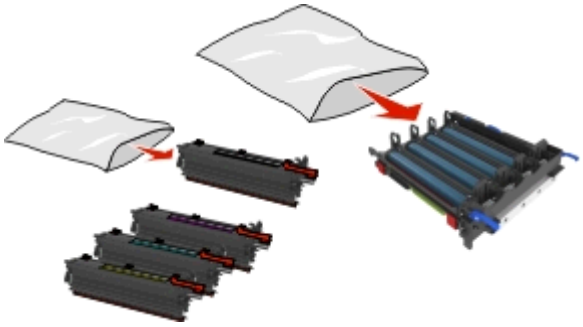
6 Lift the blue levers on the imaging kit, and then pull the imaging kit until it stops.



7 Press down the blue lever, and then grasp the green handles on the sides to pull out the imaging kit.



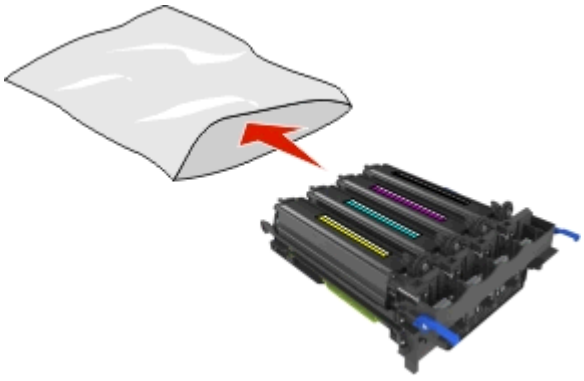
8 Unpack the replacement black and color imaging kit.



Notes:

- Color imaging kit includes the imaging kit and the cyan, magenta, yellow, and black developer units.
- Black imaging kit includes the imaging kit and the black developer unit.

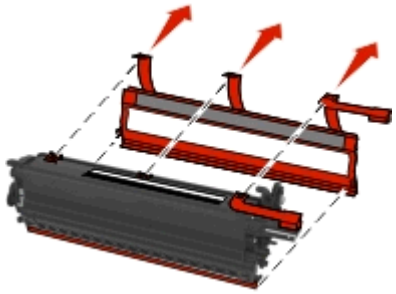
9 Pack the used imaging kit.



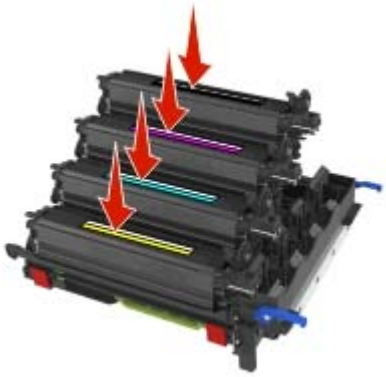
Note: When replacing the black imaging kit, save the cyan, magenta, and yellow developer units. Dispose only the black developer unit.

10 Gently shake the yellow, cyan, magenta, and black developer units side-to-side.

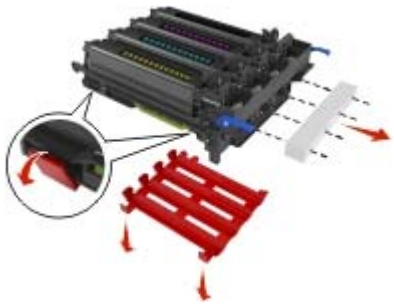
11 Remove the red packing strip and the attached fabric from the developer units.



12 Insert the yellow, cyan, magenta, and black developer units into the matching color slots.

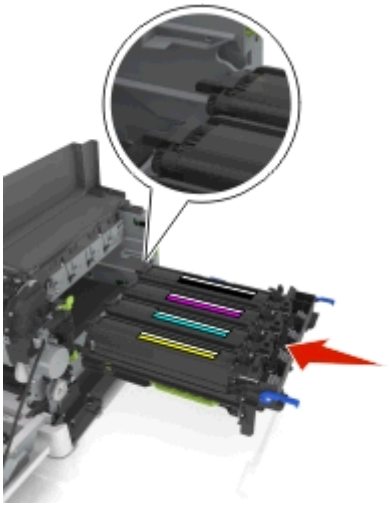


13 Remove the red packing strip from the imaging kit.

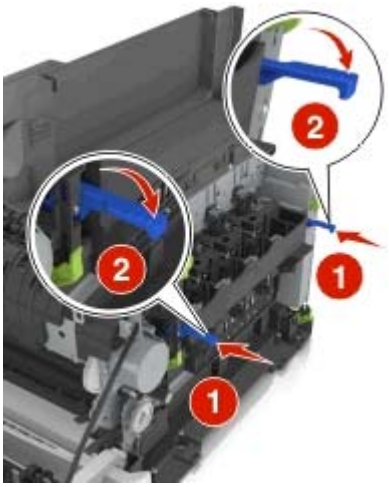


Warning—Potential Damage: Do not touch the shiny photoconductor drum under the imaging kit. Doing so may affect the quality of future print jobs.

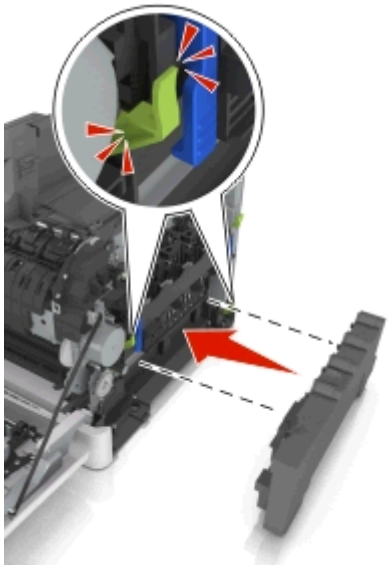
14 Align, and then insert the imaging kit.



15 Push the blue levers down until the imaging kit is fully seated into place.



16 Insert the waste toner bottle.



17 Insert the right side cover.

18 Insert the toner cartridges.

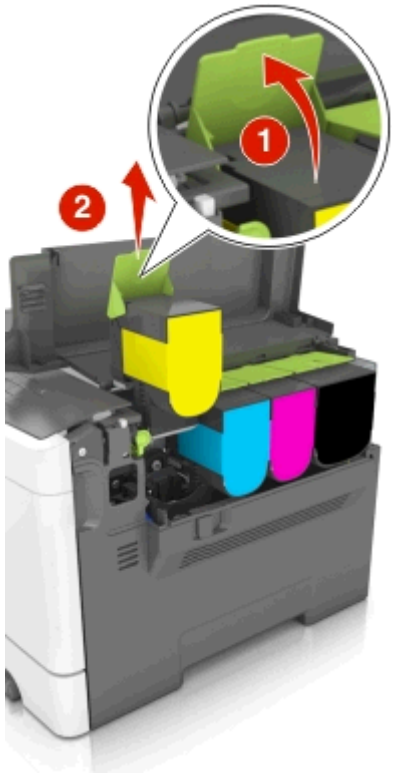
19 Close the top door.

20 Close the front door.

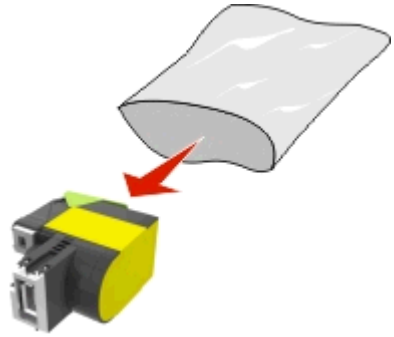
Replacing toner cartridges

1 Slide the release latch on the right side of the printer, and then open the top door.

2 Remove the toner cartridge by lifting the handle, and then gently pulling it away from the imaging kit.



3 Unpack the new toner cartridge, and then remove its packaging.



4 Align the new toner cartridge, and then press the cartridge down until it fits into place.

5 Close the top door.

6 Seal the used toner cartridge in the bag that the replacement toner cartridge came in before disposing.

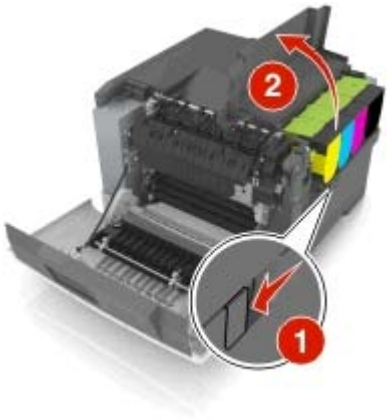
Replacing a developer unit

Replace the developer unit when a print quality defect occurs or when damage occurs to the printer.

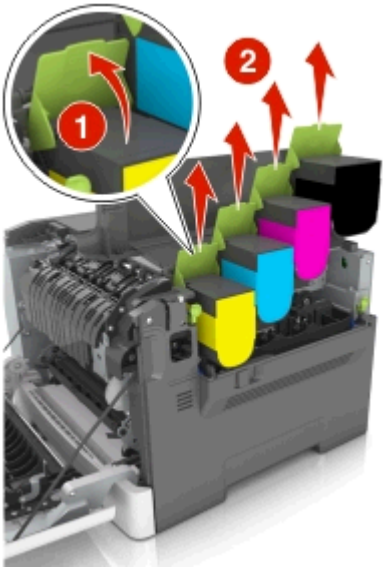
1 Open the front door.

CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

2 Open the top door.

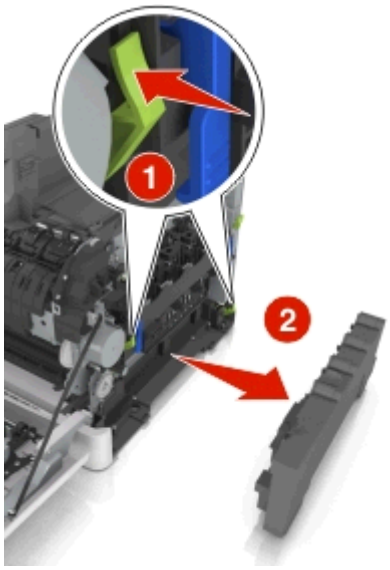


3 Remove the toner cartridges.

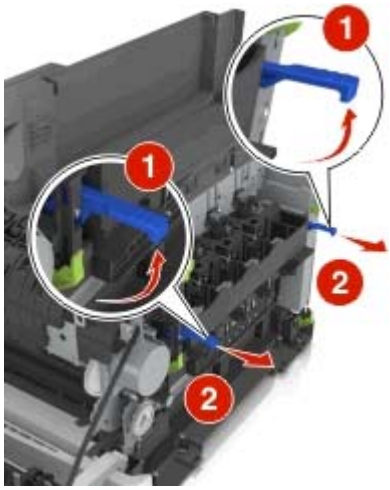


4 Remove the right side cover.

5 Remove the waste toner bottle.

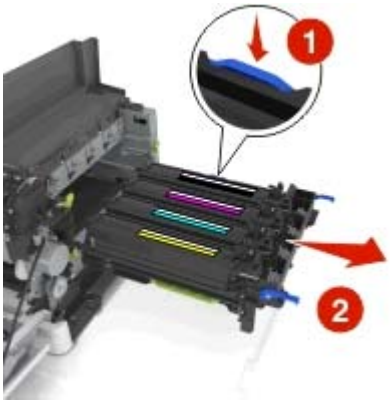


6 Lift the blue levers on the imaging kit, and then pull the imaging kit until it stops.

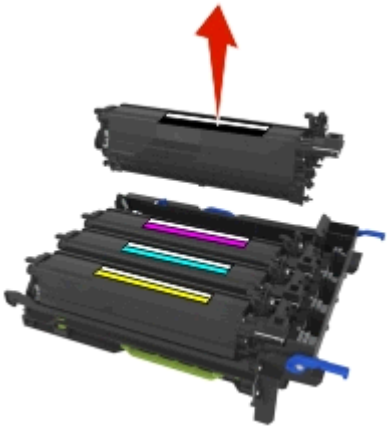


7 Press down the blue lever, and then grasp the green handles on the sides to pull out the imaging kit.

Warning—Potential Damage: Do not touch the underside of the imaging kit. This could damage the imaging kit.

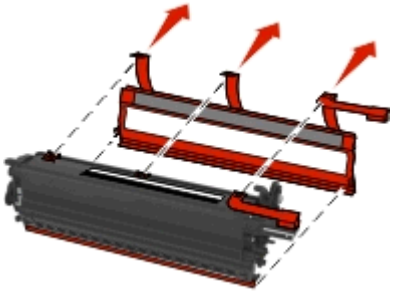


8 Remove the used developer unit.

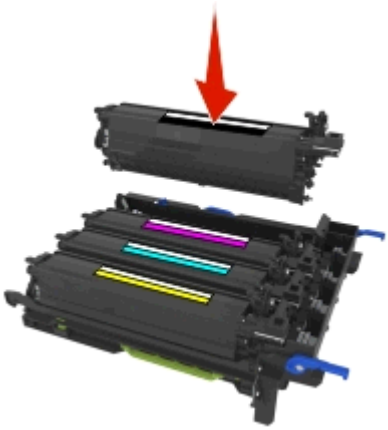


9 Gently shake the replacement developer unit side-to-side before removing it from its packaging.

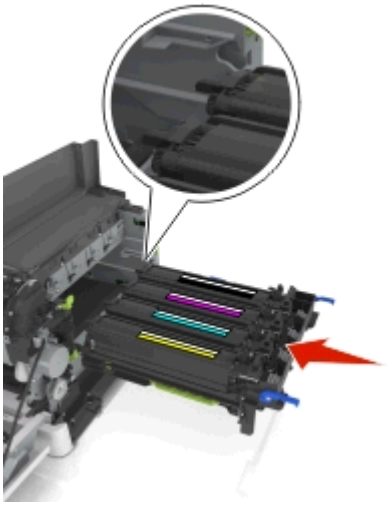
10 Remove the red shipping cover from the developer unit.



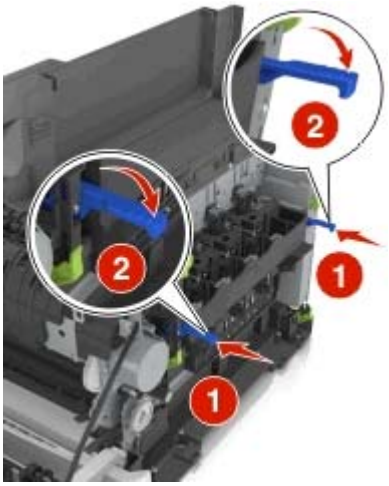
11 Insert the developer unit.



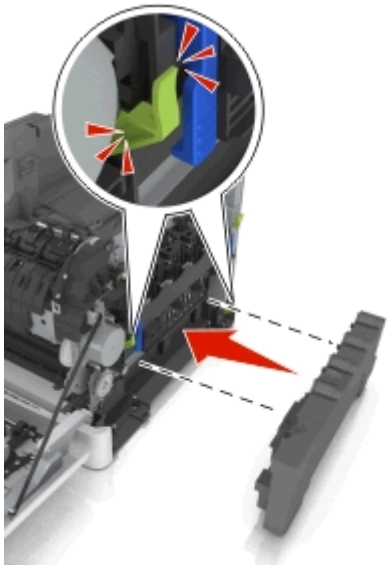
12 Align, and then insert the imaging kit.



13 Push the blue levers down until the imaging kit is fully seated into place.



14 Insert the waste toner bottle.



15 Insert the right side cover.

16 Insert the toner cartridges.

17 Close the top door.

18 Close the front door.

19 Pack the used developer unit in the bag that the replacement developer unit came in before disposing.

Moving the printer

Before moving the printer

CAUTION—POTENTIAL INJURY: The printer weight is greater than 18 kg (40 lb) and requires two or more trained personnel to lift it safely.

CAUTION—POTENTIAL INJURY: Before moving the printer, follow these guidelines to avoid personal injury or printer damage:

- Turn the printer off using the power switch, and then unplug the power cord from the electrical outlet.
- Disconnect all cords and cables from the printer before moving it.
- Lift the printer off the optional tray, and then set it aside instead of trying to lift the tray and printer at the same time.

Note: Use the handholds located on both sides of the printer to lift it.

Warning—Potential Damage: Damage to the printer caused by improper moving is not covered by the printer warranty.

Moving the printer to another location

The printer and its hardware options can be safely moved to another location by following these precautions:

- Any cart used to move the printer must have a surface able to support the full footprint of the printer.
- Any cart used to move the hardware options must have a surface able to support the dimensions of the hardware options.

- Keep the printer in an upright position.
- Avoid severe jarring movements.

Shipping the printer

When shipping the printer, use the original packaging.

Managing the printer

Checking the printer status

You can view paper tray settings, the level of toner in the toner cartridges, the percentage of life remaining in the maintenance kit, and capacity measurements of certain printer parts from the Device Status page of the Embedded Web Server.

1 Type the printer IP address in the address field of your Web browser.

Note: If you do not know the IP address of the printer, then you can:

- View the IP address on the printer control panel in the TCP/IP section under the Networks/Ports menu.
- Print a network setup page or the menu settings pages and locate the IP address in the TCP/IP section.

2 Click **Device Status**.

Viewing reports

You can view some reports from the Embedded Web Server. These reports are useful for assessing the status of the printer, network, and supplies.

1 Open a Web browser, and then type the printer IP address in the address field.

Notes:

- View the printer IP address in the TCP/IP section in the Network/Ports menu. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the Web page correctly.

2 Click **Reports**, and then click the type of report you want to view.

Configuring supply notifications from the Embedded Web Server

You can determine how you would like to be notified when supplies run nearly low, low, very low, or reach their end-of-life by setting the selectable alerts.

Notes:

- You can select alerts for toner cartridges, imaging kit, maintenance kit, and waste toner bottle.
- All alerts can be set for nearly low, low, and very low supply conditions. Not all alerts can be set for the end-of-life supply condition. E-mail alert is available for all supply conditions.
- The percentage of estimated remaining supply that prompts the alert can be set on some supplies for some supply conditions.

1 Open a Web browser, and then type the printer IP address in the address field.

Notes:

- View the printer IP address in the TCP/IP section in the Network/Ports menu. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the Web page correctly.

2 Click **Settings** > **Print Settings** > **Supply Notifications**.

3 From the drop-down menu for each supply, select one of the following notification options:

Notification	Description
Off	The normal printer behavior for all supplies occurs.
E-mail Only	The printer generates an e-mail when the supply condition is reached. The status of the supply appears on the menus page and status page.
Warning	The printer shows the warning message and generates an email about the status of the supply. The printer does not stop when the supply condition is reached.
Continuable Stop[1]	The printer stops processing jobs when the supply condition is reached. The user needs to press a button to continue printing.
Non Continuable Stop[1,2]	The printer stops when the supply condition is reached. The supply must be replaced to continue printing.
[1] The printer generates an e-mail about the status of the supply when supply notification is enabled. [2] The printer stops when some supplies become empty to prevent damage.	

4 Click **Submit**.

Modifying confidential print settings

Note: This feature is available only in network printers or printers connected to print servers.

1 Open a Web browser, and then type the printer IP address in the address field.

Notes:

- View the printer IP address in the TCP/IP section in the Network/Ports menu. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the Web page correctly.

2 Click **Settings** tab > **Security** > **Confidential Print Setup**.

3 Modify the settings:

- Set a maximum number of PIN entry attempts. When a user exceeds a specific number of PIN entry attempts, all of the jobs for that user are deleted.
- Set an expiration time for confidential print jobs. When a user has not printed the jobs within the specified time, all of the jobs for that user are deleted.

4 Save the modified settings.

Copying printer settings to other printers

Note: This feature is available only in network printers.

1 Open a Web browser, and then type the printer IP address in the address field.

Notes:

- View the printer IP address in the TCP/IP section in the Network/Ports menu. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the Web page correctly.

2 Click the **Copy Printer Settings**.

3 To change the language, select a language from the drop-down menu, and then click **Click here to submit language**.

4 Click **Printer Settings**.

5 Type the IP addresses of the source and target printers in their appropriate fields.

Note: If you want to add or remove a target printer, then click **Add Target IP** or **Remove Target IP**.

6 Click **Copy Printer Settings**.

Restoring factory default settings

If you want to keep a list of the current menu settings for reference, then print a menu settings page before restoring the factory default settings. For more information, see "Printing a menu settings page" on page 37.

If you want a more comprehensive method of restoring the printer factory default settings, then perform the Wipe All Settings option. For more information, see "Erasing non-volatile memory" on page 117.

Warning—Potential Damage: Restoring factory defaults returns most printer settings to the original factory default settings. Exceptions include the display language, custom sizes and messages, and network/port menu settings. All downloads stored in the RAM are deleted. Downloads stored in the flash memory or in a printer hard disk are not affected.

From the home screen, navigate to:

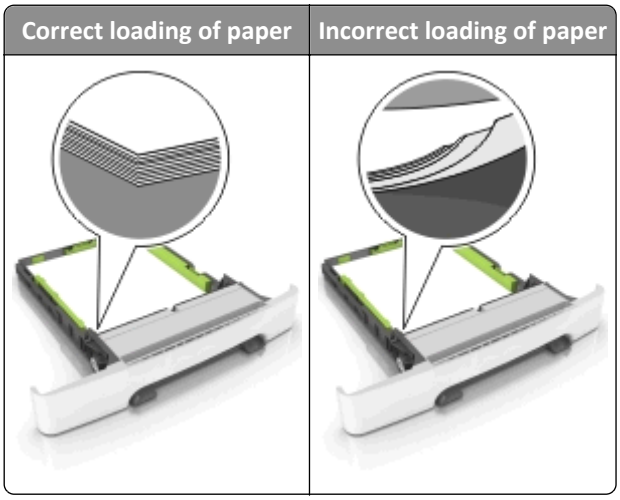
> **Settings** > **General Settings** > **Factory Defaults** > **Restore Now** >

Clearing jams

Avoiding jams

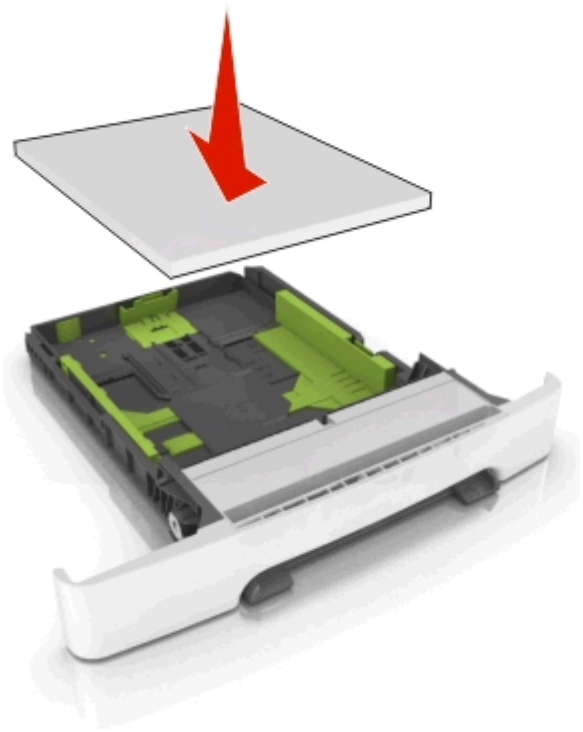
Load paper properly

- Make sure paper lies flat in the tray.



- Do not remove a tray while the printer is printing.
- Do not load a tray while the printer is printing. Load it before printing, or wait for a prompt to load it.
- Do not load too much paper. Make sure the stack height is below the maximum paper fill indicator.

- Do not slide the paper into the tray. Load paper as shown in the illustration.



- Make sure the guides in the tray or the multipurpose feeder are properly positioned and are not pressing tightly against the paper or envelopes.
- Push the tray firmly into the printer after loading paper.

Use recommended paper

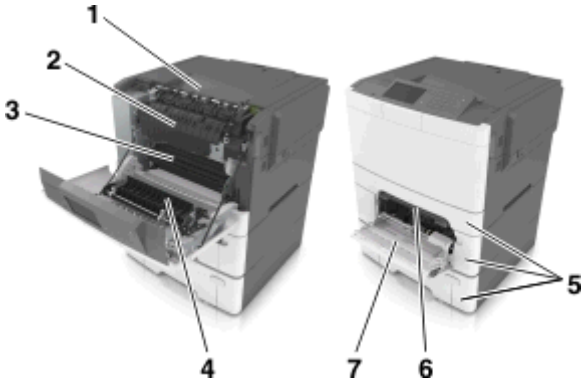
- Use only recommended paper or specialty media.
- Do not load wrinkled, creased, damp, bent, or curled paper.
- Flex, fan, and straighten paper before loading it.

- Do not use paper that has been cut or trimmed by hand.
- Do not mix paper sizes, weights, or types in the same tray.
- Make sure the paper size and type are set correctly on the computer or printer control panel.
- Store paper according to manufacturer recommendations.

Understanding jam messages and locations

When a jam occurs, a message indicating the jam location and information to clear the jam appears on the printer display. Open the doors, covers, and trays indicated on the display to remove the jam.

Note: When Jam Recovery is set to On or Auto, the printer reprints jammed pages. However, Auto does not guarantee that the page will print.



	Jam location	Message on the display	What to do
1	Standard bin	[x]-page jam, clear standard bin. [203.xx]	Remove the jammed paper.
2	Fuser	[x]-page jam, open front door to clear fuser. [202.xx]	Open the front door, pull the tab and hold the fuser cover down, and then remove the jammed paper.
3	Front door	[x]-page jam, open front door. [20y.xx]	Open the front door, and then remove the jammed paper.
4	Duplex	[x]-page jam, open front door to clear duplex. [23y.xx]	Open the front door, and then remove the jammed paper.
5	Tray [x]	[x]-page jam, open tray [x]. [24y.xx]	Pull the indicated tray out, and then remove the jammed paper.
6	Manual feeder	[x]-page jam, clear manual feeder. [251.xx]	Remove the jammed paper.
7	Multipurpose feeder	[x]-page jam, clear multipurpose feeder. [250.xx]	Push the paper release lever to lift the paper rollers, and then remove the jammed paper.

[x]-page jam, clear standard bin.

1 Firmly grasp the jammed paper on each side, and then gently pull it out.

Note: Make sure all paper fragments are removed.

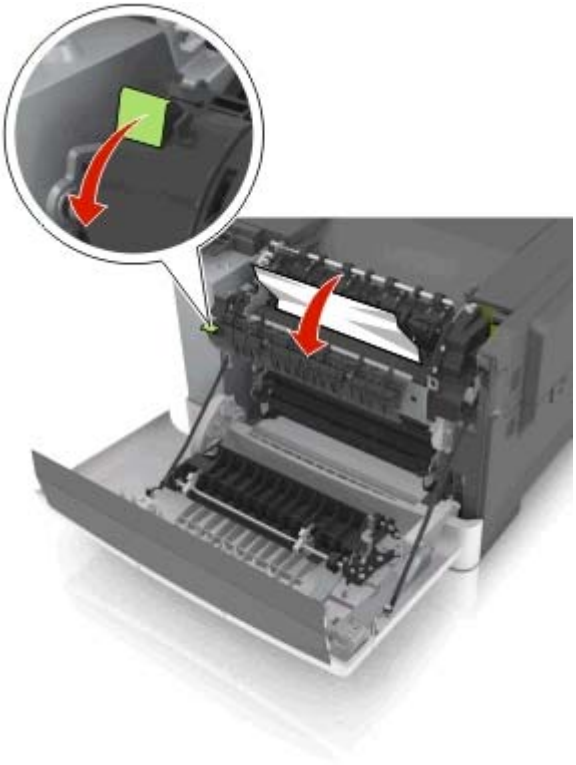
2 From the printer control panel, touch ✔ to clear the message and continue printing. For non-touch-screen printer models, select **Next** > **Clear the jam, press OK**, and then press OK to confirm.

[x]-page jam, open front door to clear fuser.

1 Open the front door.

CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

2 Pull the green lever to open the fuser cover.



3 Hold down the fuser cover, and then remove the jammed paper.

Note: Make sure all paper fragments are removed.

4 Close the front door.

5 From the printer control panel, touch to clear the message and continue printing. For non-touch-screen printer models, select **Next** > **Clear the jam, press OK**, and then press OK to confirm.

[x]-page jam, open front door.

1 Open the front door.

CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

2 Firmly grasp the jammed paper on each side, and then gently pull it out.

Note: Make sure all paper fragments are removed.

3 Close the front door.

4 From the printer control panel, touch to clear the message and continue printing. For non-touch-screen printer models, select **Next** > **Clear the jam, press OK**, and then press OK to confirm.

[x]-page jam, open front door to clear duplex.

1 Open the front door.

CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

2 Firmly grasp the jammed paper on each side, and then gently pull it out.

Note: Make sure all paper fragments are removed.

3 Close the front door.

4 From the printer control panel, touch to clear the message and continue printing. For non-touch-screen printer models, select **Next** > **Clear the jam, press OK**, and then press OK to confirm.

[x]-page jam, open tray [x].

1 Pull the tray completely out of the printer.

Note: The message on the printer display determines in which tray the paper jam is located.

2 Firmly grasp the jammed paper on each side, and then gently pull it out.

Note: Make sure all paper fragments are removed.

3 Insert the tray.

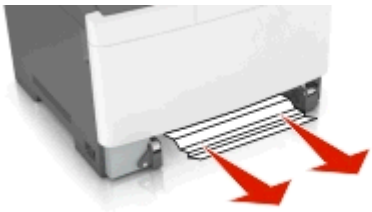
4 From the printer control panel, touch to clear the message and continue printing. For non-touch-screen printer models, select **Next** > **Clear the jam, press OK**, and then press OK to confirm.

[x]-page jam, clear manual feeder.

1 Pull out the standard 250-sheet tray (Tray 1) and manual feeder.

2 Grasp the jammed paper on each side, and then gently pull it out.

Note: Make sure all paper fragments are removed.



3 Insert the tray.

4 From the printer control panel, touch to clear the message and continue printing. For non-touch-screen printer models, select **Next** > **Clear the jam, press OK**, and then press OK to confirm.

[x]-page jam, clear multipurpose feeder

1 Push the paper release lever in the multipurpose feeder to access the jammed paper, and then gently pull it out.

Note: Make sure all paper fragments are removed.

2 Flex the sheets of paper back and forth to loosen them, and then fan them. Do not fold or crease the paper. Straighten the edges on a level surface.

3 Reload paper into the multipurpose feeder.

4 Slide the paper guide until it rests lightly against the edge of the paper stack.

5 From the printer control panel, touch ✓ to clear the message and continue printing. For non-touch-screen printer models, select **Next** > OK > **Clear the jam, press OK** > OK.

Troubleshooting

Understanding the printer messages

Adjusting color

Wait for the process to complete.

Change [paper source] to [custom type name]

Try one or more of the following:

- Load the correct size and type of paper in the tray, and then select **Finished changing paper** on the printer control panel to clear the message and continue printing. For non-touch-screen printer models, press OK to confirm.

  Note: Make sure the paper size and type are specified in the Paper menu on the printer control panel.
- Cancel the print job.

Change [paper source] to [custom string]

Try one or more of the following:

- Load the correct size and type of paper in the tray, and then select **Finished changing paper** on the printer control panel to clear the message and continue printing. For non-touch-screen printer models, press OK to confirm.

  Note: Make sure the paper size and type are specified in the Paper menu on the printer control panel.
- Cancel the print job.

Change [paper source] to [paper type] [paper size]

Try one or more of the following:

- Load the correct size and type of paper in the tray, and then select **Finished changing paper** on the printer control panel to clear the message and continue printing. For non-touch-screen printer models, press OK to confirm.

  Note: Make sure the paper size and type are specified in the Paper menu on the printer control panel.
- Cancel the print job.

Close door

Make sure the right side cover is installed, and then close the front and top doors to clear the message.

[Color] cartridge low [88.xy]

You may need to order a toner cartridge. If necessary, select **Continue** to clear the message and continue printing. For non-touch-screen printer models, press OK to confirm.

[Color] cartridge nearly low [88.xy]

If necessary, select **Continue** on the printer control panel to clear the message and continue printing. For non-touch-screen printer models, press OK to confirm.

[Color] cartridge very low, [x] estimated pages remain [88.xy]

You may need to replace the toner cartridge very soon. For more information, see the “Replacing supplies” section of the *User’s Guide*.

If necessary, select **Continue** on the printer control panel to clear the message and continue printing. For non-touch-screen printer models, press OK to confirm.

[Type] imaging kit low [84.xy]

Note: The type can be a black imaging kit, or a black and color imaging kit.

You may need to order an imaging kit. If necessary, select **Continue** on the printer control panel to clear the message and continue printing. For non-touch-screen printer models, press OK to confirm.

[Type] imaging kit nearly low [84.xy]

Note: The type can be a black imaging kit, or a black and color imaging kit.

If necessary, select **Continue** on the printer control panel to clear the message and continue printing. For non-touch-screen printer models, press OK to confirm.

[Type] imaging kit very low, [x] estimated pages remain [84.xy]

Note: The type can be a black imaging kit, or a black and color imaging kit.

You may need to replace the imaging kit very soon. For more information, see the “Replacing supplies” section of the *User’s Guide*.

If necessary, select **Continue** on the printer control panel to clear the message and continue printing. For non-touch-screen printer models, press OK to confirm.

Complex page, some data may not have printed [39]

Try one or more of the following:

- From the printer control panel, select **Continue** to ignore the message and continue printing. For non-touch-screen printer models, press OK to confirm.
- Cancel the current print job. For non-touch-screen printer models, press OK to confirm.
- Install additional printer memory.

Configuration change, some held jobs were not restored [57]

Held jobs are invalidated because of any of the following possible changes in the printer:

- The printer firmware has been updated.
- The tray for the print job is removed.
- The print job is sent from a flash drive that is no longer attached to the USB port.
- The printer hard disk contains print jobs that were stored when the hard disk was installed in a different printer model.

From the printer control panel, select **Continue** to clear the message. For non-touch-screen printer models, press OK to confirm.

Defective flash detected [51]

Try one or more of the following:

- Replace the defective flash memory card.
- From the printer control panel, select **Continue** to ignore the message and continue printing. For non-touch-screen printer models, press OK to confirm.
- Cancel the current print job.

Error reading USB drive. Remove USB.

An unsupported USB device is inserted. Remove the USB device, and then insert a supported one.

Error reading USB hub. Remove hub.

An unsupported USB hub has been inserted. Remove the USB hub, and then install a supported one.

Incompatible tray [x] [59]

Remove, and then reinstall the indicated tray to clear the message.

Incorrect paper size, open [paper source] [34]

Note: The paper source can be a tray or a feeder.

Try one or more of the following:

- Load the correct size of paper in the paper source.
- From the printer control panel, select **Continue** to clear the message and print using a different paper source. For non-touch-screen printer models, press OK to confirm.
- Check the length and width guides of the paper source and make sure the paper is loaded properly.
- Make sure the correct paper size and type are specified in the Printing Preferences or in the Print dialog.
- Make sure the paper size and type are specified in the Paper menu on the printer control panel.
- Make sure that the paper size is correctly set. For example, if Multipurpose Feeder Size is set to Universal, then make sure the paper is large enough for the data being printed.
- Cancel the print job.

Insert Tray [x]

Insert the indicated tray into the printer.

Insufficient memory for Flash Memory Defragment operation [37]

Try one or more of the following:

- From the printer control panel, select **Continue** to stop the defragmentation and continue printing. For non-touch-screen printer models, press OK to confirm.
- Delete fonts, macros, and other data from the printer memory.
- Install additional printer memory.

Insufficient memory, some Held Jobs were deleted [37]

The printer deleted some held jobs in order to process current jobs.

Select **Continue** to clear the message. For non-touch-screen printer models, press OK to confirm.

Insufficient memory to collate job [37]

Try one or more of the following:

- From the printer control panel, select **Continue** to print the part of the job already stored and begin collating the rest of the print job. For non-touch-screen printer models, press OK to confirm.
- Cancel the current print job.

Insufficient memory to support Resource Save feature [35]

Install additional printer memory or select **Continue** on the printer control panel to disable Resource Save, clear the message, and continue printing. For non-touch-screen printer models, press OK to confirm.

Insufficient memory, some held jobs will not be restored [37]

Try one or more of the following:

- From the printer control panel, select **Continue** to clear the message. For non-touch-screen printer models, press OK to confirm.
- Delete other held jobs to free up additional printer memory.

Load [paper source] with [custom type name]

Try one or more of the following:

- Load the tray or feeder with the correct size and type of paper.
- To use the tray with the correct paper size or type, select **Finished loading paper** on the printer control panel. For non-touch-screen printer models, press OK to confirm.

  Note: If the printer detects a tray that has the correct paper type and size, then it feeds from that tray. If the printer cannot detect a tray that has the correct paper type and size, then it prints from the default paper source.
- Cancel the current job.

Load [paper source] with [custom string]

Try one or more of the following:

- Load the indicated tray or feeder with the correct size and type of paper.
- To use the tray with the correct paper size or type, select **Finished loading paper** on the printer control panel. For non-touch-screen printer models, press OK to confirm.

  Note: If the printer finds a tray that has the correct paper type and size, then it feeds from that tray. If the printer cannot find a tray with the correct paper type and size, then it prints from the default paper source.
- Cancel the current job.

Load [paper source] with [paper size]

Try one or more of the following:

- Load the tray or feeder with the correct size of paper.
- To use the tray or feeder with the correct paper size, select **Finished loading paper** on the printer control panel. For non-touch-screen printer models, press OK to confirm.

  Note: If the printer detects a tray that has the correct paper size, then it feeds from that tray. If the printer cannot detect a tray that has the correct paper size, then it prints from the default paper source.
- Cancel the current job.

Load [paper source] with [paper type] [paper size]

Try one or more of the following:

- Load the tray or feeder with the correct size and type of paper.
- To use the tray or feeder with the correct paper size and type, select **Finished loading paper** on the printer control panel. For non-touch-screen printer models, press OK to confirm.

  Note: If the printer detects a tray that has the correct paper size and type, then it feeds from that tray. If the printer cannot detect a tray that has the correct paper size and type, then it prints from the default paper source.
- Cancel the current job.

Load Manual Feeder with [custom string]

Try one or more of the following:

- Load the feeder with the correct size and type of paper.
- Depending on your printer model, touch **Prompt each page, paper loaded** or press OK on the printer control panel to clear the message and continue printing.
- Cancel the current job.

Load Manual Feeder with [custom type name]

Try one or more of the following:

- Load the feeder with the correct size and type of paper.
- Depending on your printer model, touch **Prompt each page, paper loaded** or press OK on the printer control panel to clear the message and continue printing.
- Cancel the current job.

Load Manual Feeder with [paper size]

Try one or more of the following:

- Load the feeder with the correct size of paper.
- Depending on your printer model, touch **Prompt each page, paper loaded** or press OK on the printer control panel to clear the message and continue printing.
- Cancel the current job.

Load Manual Feeder with [paper type] [paper size]

Try one or more of the following:

- Load the feeder with the correct size and type of paper.
- Depending on your printer model, touch **Prompt each page, paper loaded** or press OK on the printer control panel to clear the message and continue printing.
- Cancel the current job.

Maintenance kit low [80.xy]

You may need to order a maintenance kit. For more information, contact customer support or your service representative.

If necessary, select **Continue** to clear the message and continue printing. For non-touch-screen printer models, press OK to confirm.

Maintenance kit nearly low [80.xy]

For more information, contact customer support or your service representative.

If necessary, select **Continue** to clear the message and continue printing. For non-touch-screen printer models, press OK to confirm.

Maintenance kit very low, [x] estimated pages remain [80.xy]

You may need to replace the maintenance kit very soon. For more information, contact customer support or your service representative.

If necessary, select **Continue** on the printer control panel to clear the message and continue printing. For non-touch-screen printer models, press OK to confirm.

Memory full [38]

Try one or more of the following:

- From the printer control panel, select **Cancel job** to clear the message. For non-touch-screen printer models, press OK to confirm.
- Install additional printer memory.

Network [x] software error [54]

Try one or more of the following:

- From the printer control panel, select **Continue** to continue printing. For non-touch-screen printer models, press OK to confirm.
- Turn off the printer, wait for about 10 seconds, and then turn the printer back on.
- Update the network firmware in the printer or print server. For more information, contact customer support.

Not enough free space in flash memory for resources [52]

Try one or more of the following:

- From the printer control panel, select **Continue** to clear the message and continue printing. For non-touch-screen printer models, press OK to confirm.
- Delete fonts, macros, and other data stored in the flash memory.
- Upgrade to a larger capacity flash memory card.

Note: Downloaded fonts and macros that are not previously stored in the flash memory are deleted.

Non-Printer Manufacturer [color] [supply type], see User's Guide [33.xy]

Note: The supply type can be a toner cartridge or the imaging kit.

The printer has detected an unrecognized supply or part installed in the printer.

Your printer is designed to function best with genuine supplies and parts made by the printer manufacturer. Use of third-party supplies or parts may affect the performance, reliability, or life of the printer and its imaging components.

All life indicators are designed to function with supplies and parts, and may deliver unpredictable results if third-party supplies or parts are used. Imaging component usage beyond the intended life may damage your printer or its associated components.

Warning—Potential Damage: Use of third-party supplies or parts can affect warranty coverage. Damage caused by the use of third-party supplies or parts may not be covered by the warranty.

To accept any and all of these risks, and to proceed with the use of non-genuine supplies or parts in your printer, press and hold and the **#** button on the printer control panel simultaneously for 15 seconds.

For non-touch-screen printer models, press and simultaneously for 15 seconds to clear the message and continue printing.

If you do not want to accept these risks, then remove the third-party supply or part from your printer, and then install a genuine supply or part.

Note: For the list of supported supplies, visit our Web site or contact the place where you purchased the printer.

PPDS font error [50]

Try one or more of the following:

- From the printer control panel, select **Continue** to clear the message and continue printing. For non-touch-screen printer models, press to confirm.
- If the printer cannot find the requested font, then from the printer control panel, navigate to:

  PPDS menu > **Best Fit** > **On**

  The printer will find a similar font and reformat the affected text.
- Cancel the current print job.

Reinstall missing or unresponsive [color] cartridge [31.xy]

Try one or more of the following:

- Install the missing toner cartridge. For more information, see the “Replacing supplies” section of the *User’s Guide*.
- Remove the unresponsive cartridge, and then reinstall it.

  Note: If the message appears after reinstalling the supply, then the cartridge may be defective. Replace the cartridge.

Reinstall missing or unresponsive [type] imaging kit [31.xy]

Note: The type can be a black imaging kit, or a black and color imaging kit.

Try one or more of the following:

- Install the missing imaging kit. For more information, see the “Replacing supplies” section of the *User’s Guide*.
- Remove the unresponsive imaging kit, and then reinstall it.

  Note: If the message appears after reinstalling the supply, then the imaging kit may be defective. Replace the imaging kit.

Reload printed pages in Tray [x]

Try any of the following:

- From the printer control panel, select **Continue** to clear the message and continue printing the second side of the sheet. For non-touch-screen printer models, press OK to confirm.
- Cancel the print job.

Remove packaging material, [area name]

1. Remove any remaining packing material from the indicated location.
2. From the printer control panel, touch **Continue** to clear the message. For non-touch-screen printer models, press OK to confirm.

Remove paper from standard output bin

Remove the paper stack from the standard bin.

Replace [color] cartridge, 0 estimated pages remain [88.xy]

Replace the indicated toner cartridge to clear the message and continue printing. For more information, see the instruction sheet that came with the supply.

Note: If you do not have a replacement cartridge, then visit our Web site or contact the place where you purchased the printer.

Replace [color] cartridge, printer region mismatch [42.xy]

Install a suitable toner cartridge.

Replace [type] imaging kit, 0 estimated pages remain [84.xy]

Note: The type can be a black imaging kit, or a black and color imaging kit.

Replace the indicated imaging kit to clear the message and continue printing. For more information, see the instruction sheet that came with the supply.

Note: If you do not have a replacement imaging kit, then visit our Web site or contact the place where you purchased the printer.

Replace defective [color] cartridge [31.xy]

Replace the defective toner cartridge to clear the message. For more information, see the instruction sheet that came with the supply.

Note: If you do not have a replacement toner cartridge, then see the “Ordering supplies” section of the *User’s Guide*.

Replace defective [type] imaging kit [31.xy]

Note: The type can be a black imaging kit, or a black and color imaging kit.

Replace the defective imaging kit to clear the message and continue printing. For more information, see the instruction sheet that came with the supply.

Note: If you do not have a replacement imaging kit, then visit our Web site or contact the place where you purchased the printer.

Replace maintenance kit, 0 estimated pages remain [80.xy]

The printer is scheduled for maintenance. Contact customer support or your service representative, and then report the message.

Replace missing [color] cartridge [31.xy]

Install the indicated toner cartridge to clear the message. For more information, see the “Replacing supplies” section of the *User’s Guide*.

Replace missing [type] imaging kit [31.xy]

Note: The type can be a black imaging kit, or a black and color imaging kit.

Install the indicated imaging kit to clear the message. For more information, see the “Replacing supplies” section of the *User’s Guide*.

Replace waste toner bottle [82.xy]

Replace the waste toner bottle to clear the message.

Replace unsupported [color] cartridge [32.xy]

Remove the toner cartridge, and then install a supported one to clear the message.

Note: If you do not have a replacement cartridge, then visit our Web site or contact the place where you purchased the printer.

Replace unsupported [type] imaging kit [32.xy]

Note: The type can be a black imaging kit, or a black and color imaging kit.

Remove the indicated imaging kit, and then install a supported one to clear the message.

Note: If you do not have a replacement imaging kit, then visit our Web site or contact the place where you purchased the printer.

Replace missing waste toner bottle [82.xy]

Install the missing waste toner bottle to clear the message. For more information, see the instruction sheet that came with the supply.

Restore held jobs?

Try one or more of the following:

- From the printer control panel, touch **Restore** to restore all held jobs stored in the printer hard disk.
- From the printer control panel, touch **Do not restore** if you do not want to restore any of the print jobs.

SMTP server not set up. Contact system administrator.

From the printer control panel, touch **Continue** to clear the message.

Note: If the message appears again, then contact your system support person.

Some held jobs were not restored

From the printer control panel, select **Continue** to clear the message. For non-touch-screen printer models, press OK to confirm.

Note: Held jobs that are not restored remain in the printer hard disk and are inaccessible.

Standard network software error [54]

Try one or more of the following:

- From the printer control panel, select **Continue** to continue printing. For non-touch-screen printer models, press OK to confirm.
- Turn off the printer and then turn it back on.
- Update the network firmware in the printer or print server. For more information, contact customer support.

Standard USB port disabled [56]

From the printer control panel, select **Continue** to clear the message. For non-touch-screen printer models, press OK to confirm.

Notes:

- The printer discards any data received through the USB port.
- Make sure the USB Buffer menu is not set to Disabled.

Supply needed to complete job

Try one or more of the following:

- From the printer control panel, touch **Prompt for supplies** to view all error messages that indicate what supplies are needed to continue processing the current job. For non-touch-screen printer models, press OK to clear the message and continue printing.
  1. Order the missing supply immediately.
  2. Install the supply. For more information, see the instruction sheet that came with the supply.
- Cancel the print job, then install the missing supply, and then resend the print job.

Too many flash options installed [58]

1. Turn off the printer.
2. Unplug the power cord from the electrical outlet.
3. Remove the extra flash memory.
4. Connect the power cord to a properly grounded electrical outlet.
5. Turn the printer back on.

Too many trays attached [58]

1. Turn off the printer.
2. Unplug the power cord from the electrical outlet.
3. Remove the extra trays.
4. Connect the power cord to a properly grounded electrical outlet.
5. Turn the printer back on.

Unformatted flash detected [53]

Try one or more of the following:

- From the printer control, select **Continue** to stop the defragmentation and continue printing. For non-touch-screen printer models, press OK to confirm.
- Format the flash memory.

Note: If the error message remains, then the flash memory may be defective and need to be replaced.

Waste toner bottle nearly full [82.xy]

You may need to order a waste toner bottle. If necessary, select **Continue** on the printer control panel to clear the message and continue printing. For non-touch-screen printer models, press OK to confirm.

Weblink server not set up. Contact system administrator.

An error occurred on the SMTP server, or the SMTP server is not configured properly.

From the printer control panel, touch **Continue** to clear the message.

Note: If the message appears again, then contact your system support person.

Solving printer problems

Basic printer problems

The printer is not responding

Action	Yes	No
Step 1 Make sure the printer is turned on. Is the printer turned on?	Go to step 2.	Turn on the printer.
Step 2 Check if the printer is in Sleep mode or Hibernate mode. Is the printer in Sleep mode or Hibernate mode?	Press the Sleep button to wake the printer from Sleep mode or Hibernate mode.	Go to step 3.
Step 3 Check if one end of the power cord is plugged into the printer and the other to a properly grounded electrical outlet. Is the power cord plugged into the printer and a properly grounded electrical outlet?	Go to step 4.	Plug one end of the power cord into the printer and the other to a properly grounded electrical outlet.
Step 4 Check other electrical equipment plugged into the electrical outlet. Does other electrical equipment work?	Unplug the other electrical equipment, and then turn on the printer. If the printer does not work, then reconnect the other electrical equipment.	Go to step 5.

Action	Yes	No
Step 5 Check if the cables connecting the printer and the computer are inserted in the correct ports. Are the cables inserted in the correct ports?	Go to step 6.	Make sure to match the following: • The USB symbol on the cable with the USB symbol on the printer • The appropriate Ethernet cable with the Ethernet port
Step 6 Make sure the electrical outlet is not turned off by a switch or breaker. Is the electrical outlet turned off by a switch or breaker?	Turn on the switch or reset the breaker.	Go to step 7.
Step 7 Check if the printer is plugged into any surge protectors, uninterruptible power supplies, or extension cords. Is the printer plugged into any surge protectors, uninterruptible power supplies, or extension cords?	Connect the printer power cord directly to a properly grounded electrical outlet.	Go to step 8.
Step 8 Check if one end of the printer cable is plugged into a port on the printer and the other to the computer, print server, option, or other network device. Is the printer cable securely attached to the printer and the computer, print server, option, or other network device?	Go to step 9.	Connect the printer cable securely to the printer and the computer, print server, option, or other network device.
Step 9 Make sure to install all hardware options properly and remove any packing material. Are all hardware options properly installed and all packing material removed?	Go to step 10.	Turn off the printer, remove all packing materials, then reinstall the hardware options, and then turn on the printer.
Step 10 Check if you have selected the correct port settings in the printer driver. Are the port settings correct?	Go to step 11.	Use correct printer driver settings.
Step 11 Check the installed printer driver. Is the correct printer driver installed?	Go to step 12.	Install the correct printer driver.
Step 12 Turn off the printer, then wait for about 10 seconds, and then turn the printer back on. Is the printer working?	The problem is solved.	Contact **customer support**.

Printer display is blank

Action	Yes	No
Step 1 Press the Sleep button on the printer control panel. Does **Ready** appear on the printer display?	The problem is solved.	Go to step 2.
Step 2 Turn off the printer, then wait for about 10 seconds, and then turn the printer back on. Do **Please wait** and **Ready** appear on the printer display?	The problem is solved.	Turn off the printer, and then contact **customer support**.

Hardware and internal option problems

Cannot detect memory card

Action	Yes	No
Make sure the memory card is installed. **a** Install the memory card. For more information, see "Installing a memory card" on page 22. **Note:** Check if the memory card is securely connected to the printer controller board. **b** Print a menu settings page, and then check if the card is listed in the Installed Options list. Is the card listed in the Installed Options list?	The problem is solved.	Contact **customer support**.

Cannot detect internal option

Action	Yes	No
Step 1 Turn off the printer, then wait for about 10 seconds, and then turn the printer back on. Does the internal option operate correctly?	The problem is solved.	Go to step 2.
Step 2 Check if the internal option is properly installed in the controller board. **a** Turn off the printer. **b** Unplug the power cord from the electrical outlet. **c** Make sure the internal option is installed in the appropriate connector in the controller board. **d** Turn the printer back on. Is the internal option properly installed in the controller board?	Go to step 3.	Connect the internal option to the controller board.

Action	Yes	No
Step 3 Print a menu settings page, and then check to see if the internal option is listed in the Installed Options list. Is the internal option listed in the menu settings page?	Go to step 4.	Reinstall the internal option.
Step 4 Check if the option is available in the printer driver. It may be necessary to manually add the internal option in the printer driver to make it available for print jobs. For more information, see "Updating available options in the printer driver" on page 32. Is the internal option available in the printer driver?	Go to step 5.	Manually add the internal option in the printer driver.
Step 5 **a** Check if the internal option is selected. **Note:** From the application you are using, select the internal option. For Mac OS X version 9 users, make sure the printer is set up in Chooser. **b** Resend the print job. Does the internal option operate correctly?	The problem is solved.	Contact **customer support**.

Tray problems

Action	Yes	No
Step 1 **a** Pull out the tray, and then do one or more of the following: • Check for paper jams or misfeeds. • Check if the paper size indicators on the paper guides are aligned with the paper size indicators on the tray. • If you are printing on custom-size paper, then make sure that the paper guides rest against the edges of the paper. • Make sure the paper is below the maximum paper fill indicator. • Make sure paper lies flat in the tray. **b** Check if the tray closes properly. Is the tray working?	The problem is solved.	Go to step 2.
Step 2 **a** Turn off the printer, then wait about 10 seconds, and then turn the printer back on. **b** Resend the print job. Is the tray working?	The problem is solved.	Go to step 3.

Action	Yes	No
Step 3 Check if the tray is installed and recognized by the printer. Print a menu settings page, and then check if the tray is listed in the Installed Features list. Is the tray listed in the menu settings page?	Go to step 4.	Reinstall the tray. For more information, see the setup documentation that came with the tray.
Step 4 Check if the tray is available in the printer driver. **Note:** If necessary, manually add the tray in the printer driver to make it available for print jobs. For more information, see "Updating available options in the printer driver" on page 32. Is the tray available in the printer driver?	The problem is solved.	Contact **customer support**.

Paper feed problems

Jammed pages are not reprinted

Action	Yes	No
a Turn on jam recovery. **1** From the printer control panel, navigate to: **Settings** > **General Settings** > **Print Recovery** > **Jam Recovery** **2** Select **On** or **Auto**. **3** Depending on your printer model, press OK or touch **Submit**. **b** Resend the pages that did not print. Were the jammed pages reprinted?	The problem is solved.	Contact **customer support**.

Paper frequently jams

Action	Yes	No
Step 1 **a** Pull out the tray, and then do one or more of the following: • Make sure paper lies flat in the tray. • Check if the paper size indicators on the paper guides are aligned with the paper size indicators on the tray. • Check if the paper guides are aligned against the edges of the paper. • Make sure the paper is below the maximum paper fill indicator. • Check if you are printing on a recommended paper size and type. **b** Insert the tray properly. If jam recovery is enabled, then the print jobs will reprint automatically. Do paper jams still occur frequently?	Go to step 2.	The problem is solved.
Step 2 **a** Load paper from a fresh package. **Note:** Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you use it. **b** Resend the print job. Do paper jams still occur frequently?	Go to step 3.	The problem is solved.
Step 3 **a** Review the tips on avoiding jams. For more information, see "Avoiding jams" on page 144. **b** Follow the recommendations, and then resend the print job. Do paper jams still occur frequently?	Contact **customer support**.	The problem is solved.

Paper jam message remains after jam is cleared

Action	Yes	No
a Do either of the following: • For touch-screen printer models, touch or **Done**. • For non-touch-screen printer models, select **Next** > > **Clear the jam, press OK** > . **b** Follow the instructions on the printer display. Does the paper jam message remain?	Contact **customer support**.	The problem is solved.

Solving home screen application problems

- “An application error has occurred” on page 173

An application error has occurred

Action	Yes	No
Step 1 Check the system log for relevant details. **a** Open a Web browser, and then type the printer IP address in the address field. If you do not know the IP address of the printer, then you can: • View the IP address on the printer home screen. • Print a network setup page or the menu settings pages, and then locate the IP address in the TCP/IP section. **Note:** An IP address appears as four sets of numbers separated by periods, such as 123.123.123.123. **b** Click **Settings** > **Apps** > **Apps Management** > **System** tab > **Log**. **c** From the Filter menu, select an application status. **d** From the Application menu, select an application, and then click **Submit**. Does an error message appear in the log?	Go to step 2.	Contact **customer support**.
Step 2 Resolve the error. Is the application working now?	The problem is solved.	Contact **customer support**.

Solving print problems

Printing problems

Incorrect characters print

Action	Yes	No
Step 1 Make sure the printer is not in Hex Trace mode. **Note:** If **Ready Hex** appears on the printer display, then turn off the printer, and then turn it back on to deactivate Hex Trace mode. Is the printer in Hex Trace mode?	Deactivate Hex Trace mode.	Go to step 2.
Step 2 **a** From the printer control panel, select **Standard Network** or **Network [x]**, and then set SmartSwitch to On. **b** Resend the print job. Do incorrect characters print?	Contact **customer support**.	The problem is solved.

Job prints from the wrong tray or on the wrong paper

Action	Yes	No
Step 1 **a** Check if you are printing on paper that is supported by the tray. **b** Resend the print job. Did the job print from the correct tray or on the correct paper?	The problem is solved.	Go to step 2.
Step 2 **a** From the Paper menu on the printer control panel, set the paper size and type to match the paper loaded in the tray. **b** Resend the print job. Did the job print from the correct tray or on the correct paper?	The problem is solved.	Go to step 3.
Step 3 **a** Depending on your operating system, open Printing Preferences or the Print dialog, and then specify the paper type. **b** Resend the print job. Did the job print from the correct tray or on the correct paper?	The problem is solved.	Go to step 4.

Action	Yes	No
Step 4 **a** Check if the trays are not linked. **b** Resend the print job. Did the job print from the correct tray or on the correct paper?	The problem is solved.	Contact **customer support**.

Large jobs do not collate

Action	Yes	No
Step 1 **a** From the Finishing menu on the printer control panel, set Collate to (1,2,3) (1,2,3). **b** Resend the print job. Did the job print and collate correctly?	The problem is solved.	Go to step 2.
Step 2 **a** From the printer software, set Collate to (1,2,3) (1,2,3). **Note:** Setting Collate to (1,1,1) (2,2,2) in the software overrides the setting in the Finishing menu. **b** Resend the print job. Did the job print and collate correctly?	The problem is solved.	Go to step 3.
Step 3 Reduce the complexity of the print job by eliminating the number and size of fonts, the number and complexity of images, and the number of pages in the job. Did the job print and collate correctly?	The problem is solved.	Contact **customer support**.

Error message about reading the flash drive appears

Action	Yes	No
Step 1 Check if the flash drive is inserted into the front USB port. **Note:** The flash drive will not work if it is inserted into the rear USB port. Is the flash drive inserted into the front USB port?	Go to step 2.	Insert the flash drive into the front USB port.
Step 2 Check if the indicator light on the printer control panel is blinking green. **Note:** A green blinking light indicates that the printer is busy. Is the indicator light blinking green?	Wait until the printer is ready, then view the held jobs list, and then print the documents.	Go to step 3.

Action	Yes	No
Step 3 **a** Check for an error message on the display. **b** Clear the message. Does the error message still appear?	Go to step 4.	The problem is solved.
Step 4 Check if the flash drive is supported. For more information on tested and approved USB flash drives, see "Supported flash drives and file types" on page 62. Does the error message still appear?	Go to step 5.	The problem is solved.
Step 5 Check if the USB port is disabled by the system support person. Does the error message still appear?	Contact **customer support**.	The problem is solved.

Printing slows down

Notes:

- When printing using narrow paper, the printer prints at a reduced speed to prevent damage to the fuser.
- The printer speed may be reduced if printing for long periods of time, or printing at elevated temperatures.

Action	Yes	No
Place letter- or A4-size paper in the tray, and then resend the print job. Does the print speed increase?	The problem is solved.	Contact **customer support**.

Print jobs do not print

Action	Yes	No
Step 1 **a** From the document you are trying to print, open the Print dialog and check if you have selected the correct printer. **Note:** If the printer is not the default printer, then you must select the printer for each document that you want to print. **b** Resend the print job. Do the jobs print?	The problem is solved.	Go to step 2.
Step 2 **a** Check if the printer is plugged in and turned on, and if **Ready** appears on the printer display. **b** Resend the print job. Do the jobs print?	The problem is solved.	Go to step 3.

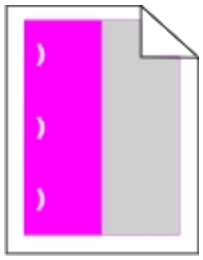
Action	Yes	No
Step 3 If an error message appears on the printer display, then clear the message. **Note:** The printer continues to print after clearing the message. Do the jobs print?	The problem is solved.	Go to step 4.
Step 4 **a** Check if the ports (USB, serial, or Ethernet) are working and if the cables are securely connected to the computer and the printer. **Note:** For more information, see the setup documentation that came with the printer. **b** Resend the print job. Do the jobs print?	The problem is solved.	Go to step 5.
Step 5 **a** Turn off the printer, then wait for about 10 seconds, and then turn the printer back on. **b** Resend the print job. Do the jobs print?	The problem is solved.	Go to step 6.
Step 6 **a** Remove, and then reinstall the printer software. For more information, see "Installing the printer" on page 31. **b** Resend the print job. Do the jobs print?	The problem is solved.	Contact **customer support**.

Print job takes longer than expected

Action	Yes	No
Step 1 Change the environmental settings of the printer. **a** From the printer control panel, navigate to: **Settings** > **General Settings** **b** Select **Eco-Mode** or **Quiet Mode**, and then select **Off**. **Note:** Disabling Eco-Mode or Quiet Mode may increase the consumption of energy or supplies, or both. Did the job print?	The problem is solved.	Go to step 2.
Step 2 Reduce the number and size of fonts, the number and complexity of images, and the number of pages in the print job, and then resend the job Did the job print?	The problem is solved.	Go to step 3.

Action	Yes	No
Step 3 **a** Remove held jobs stored in the printer memory. **b** Resend the print job. Did the job print?	The problem is solved.	Go to step 4.
Step 4 **a** Disable the Page Protect feature. From the printer control panel, navigate to: **Settings** > **General Settings** > **Print Recovery** > **Page Protect** > **Off** **b** Resend the print job. Did the job print?	The problem is solved.	Go to step 5.
Step 5 Install additional printer memory, and then resend the print job. Did the job print?	The problem is solved.	Contact **customer support**.

Repeating defects appear on prints



Action	Yes	No
a Check if the distance between the defects is equal to one of the following: • 25.1 mm (0.98 in.) • 29.8 mm (1.17 in.) • 43.9 mm (1.72 in.) • 45.5 mm (1.79 in.) • 94.2 mm (3.70 in.) **b** If the distance between the defects equals 25.1 mm (0.98 in.), 29.8 mm (1.17 in.), or 94.2 mm (3.70 in.), then replace the photoconductor unit. **c** If the distance between the defects equals 43.9 mm (1.72 in.) or 45.5 mm (1.79 in.), then replace the developer unit. Do the repeating defects still appear?	**1** Check if the distance between the defects is equal to one of the following: • 37.7 mm (1.48 in.) • 78.5 mm (3.09 in.) • 95 mm (3.74 in.) **2** Take note of the distance, and then contact **customer support** or your service representative.	The problem is solved.

Tray linking does not work

Notes:

- The trays can detect paper length.
- The multipurpose feeder does not automatically detect the paper size. You must set the size from the Paper Size/Type menu.

Action	Yes	No
Step 1 **a** Open the trays, and then check if they contain paper of the same size and type. • Check if the paper guides are in the correct positions for the size of the paper loaded in each tray. • Check if the paper size indicators on the paper guides are aligned with the paper size indicators on the tray. **b** Resend the print job. Do the trays link correctly?	The problem is solved.	Go to step 2.
Step 2 **a** From the printer control panel, set the paper size and type in the Paper menu to match the paper loaded in the trays to be linked. **Note:** The paper size and type must match for trays to be linked. **b** Resend the print job. Do the trays link correctly?	The problem is solved.	Contact **customer support**.

Multiple-language PDF files do not print

Action	Yes	No
Step 1 **a** Check if the print options for the PDF output are set to embed all fonts. **b** Generate a new PDF file, and then resend the print job. Do the files print?	The problem is solved.	Go to step 2.
Step 2 **a** Open the document you want to print in Adobe Acrobat. **b** Click **File** > **Print** > **Advanced** > **Print As Image** > **OK** > **OK** . Do the files print?	The problem is solved.	Contact **customer support**.

Unexpected page breaks occur

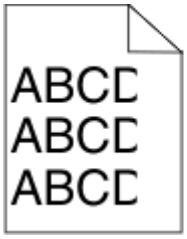
Action	Yes	No
Step 1 Adjust the print timeout settings. **a** From the printer control panel, navigate to: **Settings** > **General Settings** > **Timeouts** > **Print Timeout** **b** Select a higher setting and then, depending on your printer model, select OK or **Submit**. **c** Resend the print job. Did the file print correctly?	The problem is solved.	Go to step 2.
Step 2 **a** Check the original file for manual page breaks. **b** Resend the print job. Did the file print correctly?	The problem is solved.	Contact **customer support**.

Print quality problems

Characters have jagged or uneven edges

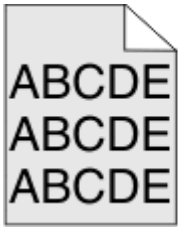
Action	Yes	No
Step 1 **a** Print a font sample list to check if the fonts you are using are supported by the printer. **1** From the printer control panel, navigate to: **Menus** > **Reports** > **Print Fonts** **2** Select **PCL Fonts** or **PostScript Fonts**. **b** Resend the print job. Are you using fonts that are supported by the printer?	Go to step 2.	Select a font that is supported by the printer.
Step 2 Check if the fonts installed on the computer are supported by the printer. Are the fonts installed on the computer supported by the printer?	The problem is solved.	Contact **customer support**.

Clipped pages or images



Action	Yes	No
Step 1 **a** Move the width and length guides in the tray to the correct positions for the paper loaded. **b** Resend the print job. Is the page or image clipped?	Go to step 2.	The problem is solved.
Step 2 From the printer control panel, set the paper size and type in the Paper menu to match the paper loaded in the tray. Does the paper size match the paper loaded in the tray?	Go to step 3.	Do one or more of the following: • From the printer control panel, change the paper size to match the paper loaded in the tray. • From the printer control panel, change the paper type to match the paper loaded in the tray.
Step 3 **a** Depending on your operating system, specify the paper size from Printing Preferences or from the Print dialog. **b** Resend the print job. Is the page or image clipped?	Go to step 4.	The problem is solved.
Step 4 **a** Remove, and then reinstall the imaging kit. **Warning—Potential Damage:** Do not expose the imaging kit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems. **Warning—Potential Damage:** Do not touch the underside of the imaging kit. This could damage the imaging kit. **b** Resend the print job. Is the page or image clipped?	Contact **customer support**.	The problem is solved.

Gray background on prints



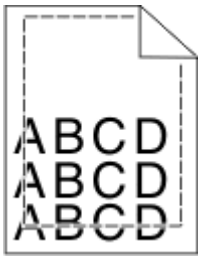
Action	Yes	No
Step 1 Reduce the toner darkness. **a** From the Quality menu on the printer control panel, reduce the toner density. **Note:** 4 is the factory default setting. **b** Resend the print job. Did the gray background disappear?	The problem is solved.	Go to step 2.
Step 2 **a** Remove, and then reinstall the imaging kit. **Warning—Potential Damage:** Do not expose the imaging kit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems. **Warning—Potential Damage:** Do not touch the underside of the imaging kit. This could damage the imaging kit. **b** Resend the print job. Did the gray background disappear?	The problem is solved.	Contact **customer support**.

Horizontal voids appear on prints

Action	Yes	No
Step 1 **a** Make sure your software program is using a correct fill pattern. **b** Resend the print job. Do horizontal voids appear on prints?	Go to step 2.	The problem is solved.

Action	Yes	No
Step 2 **a** Load the specified tray or feeder with a recommended type of paper. **b** Resend the print job. Do horizontal voids appear on prints?	Go to step 3.	The problem is solved.
Step 3 **a** Remove, and then reinstall the imaging kit. **Warning—Potential Damage:** Do not expose the imaging kit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems. **Warning—Potential Damage:** Do not touch the underside of the imaging kit. This could damage the imaging kit. **b** Resend the print job. Do horizontal voids appear on prints?	Go to step 4.	The problem is solved.
Step 4 Replace the imaging kit, and then resend the print job. Do horizontal voids appear on prints?	Contact **customer support**.	The problem is solved.

Incorrect margins on prints



Action	Yes	No
Step 1 **a** Move the width and length guides in the tray to the correct positions for the paper size loaded. **b** Resend the print job. Are the margins correct?	The problem is solved.	Go to step 2.

Action	Yes	No
Step 2 From the printer control panel, set the paper size in the Paper menu to match the paper loaded in the tray. Does the paper size match the paper loaded in the tray?	Go to step 3.	Do one or more of the following: • Specify the paper size from the tray settings to match the paper loaded in the tray. • Change the paper loaded in the tray to match the paper size specified in the tray settings.
Step 3 **a** Depending on your operating system, specify the paper size from Printing Preferences or from the Print dialog. **b** Resend the print job. Are the margins correct?	The problem is solved.	Contact **customer support**.

Paper curl

Action	Yes	No
Step 1 Move the width and length guides in the tray to the correct positions for the size of the paper loaded. Are the width and length guides positioned correctly?	Go to step 2.	Adjust the width and length guides.
Step 2 From the printer control panel, set the paper type and weight in the Paper menu to match the paper loaded in the tray. Do the paper type and weight match the type and weight of the paper in the tray?	Go to step 3.	Specify the paper type and weight from the tray settings to match the paper loaded in the tray.
Step 3 **a** Depending on your operating system, specify the paper type and weight from Printing Preferences or from the Print dialog. **b** Resend the print job. Is the paper still curled?	Go to step 4.	The problem is solved.
Step 4 **a** Remove the paper from the tray, and then turn it over. **b** Resend the print job. Is the paper still curled?	Go to step 5.	The problem is solved.

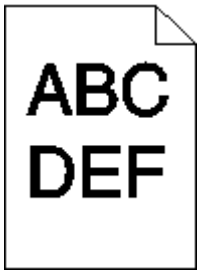
Action	Yes	No
Step 5 **a** Load paper from a fresh package. **Note:** Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you use it. **b** Resend the print job. Is the paper still curled?	Contact **customer support**.	The problem is solved.

Print irregularities

Action	Yes	No
Step 1 **a** Move the width and length guides in the tray to the correct positions for the size of the paper loaded in the tray. **b** Resend the print job. Do print irregularities still appear?	Go to step 2.	The problem is solved.
Step 2 From the printer control panel, set the paper size and type in the Paper menu to match the paper loaded in the tray. Is the tray set to the size and type of the paper loaded in the tray?	Go to step 3.	Do one or more of the following: • Specify the paper size from the tray settings to match the paper loaded in the tray. • Change the paper loaded in the tray to match the paper size specified in the tray settings.
Step 3 **a** Depending on your operating system, specify the paper type and weight from Printing Preferences or from the Print dialog. **b** Resend the print job. Do print irregularities still appear?	Go to step 4.	The problem is solved.

Action	Yes	No
Step 4 Check if the paper loaded in the tray has texture or rough finishes. Are you printing on textured or rough paper?	From the printer control panel, set the paper texture in the Paper menu to match the paper loaded in the tray.	Go to step 5.
Step 5 **a** Load paper from a fresh package. **Note:** Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you use it. **b** Resend the print job. Do print irregularities still appear?	Go to step 6.	The problem is solved.
Step 6 Replace the imaging kit, and then resend the print job. Do print irregularities still appear?	Contact **customer support**.	The problem is solved.

Print is too dark



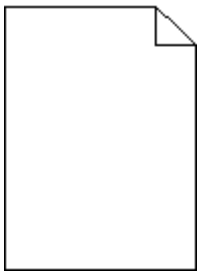
Action	Yes	No
Step 1 **a** From the Quality menu on the printer control panel, select **Color Adjust**. **b** Resend the print job. Is the print still too dark?	Go to step 2.	The problem is solved.
Step 2 **a** From the Quality menu on the printer control panel, reduce the toner darkness. **Note:** 4 is the factory default setting. **b** Resend the print job. Is the print still too dark?	Go to step 3.	The problem is solved.

Action	Yes	No
Step 3 **a** From the printer control panel, set the paper type, texture, and weight in the Paper menu to match the paper loaded in the tray. **b** Resend the print job. Is the tray set to the type, texture, and weight of the paper loaded?	Go to step 4.	Change the paper loaded in the tray to match the paper type, texture, and weight specified in the tray settings.
Step 4 **a** Depending on your operating system, specify the paper type, texture and weight from Printing Preferences or from the Print dialog. **b** Resend the print job. Is the print still too dark?	Go to step 5.	The problem is solved.
Step 5 Check if the paper loaded in the tray has texture or rough finishes. Are you printing on textured or rough paper?	From the printer control panel, set the paper texture in the Paper menu to match the paper loaded on the tray.	Go to step 6.
Step 6 **a** Load paper from a fresh package. **Note:** Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you use it. **b** Resend the print job. Is the print still too dark?	Go to step 7.	The problem is solved.
Step 7 Replace the imaging kit, and then resend the print job. Is the print still too dark?	Contact **customer support**.	The problem is solved.

Print is too light

Action	Yes	No
Step 1 **a** From the Quality menu on the printer control panel, select **Color Adjust**. **b** Resend the print job. Is the print still too light?	Go to step 2.	The problem is solved.
Step 2 **a** From the Quality menu on the printer control panel, increase the toner darkness. **Note:** 4 is the factory default setting. **b** Resend the print job. Is the print still too light?	Go to step 3.	The problem is solved.
Step 3 From the printer control panel, set the paper type, texture, and weight in the Paper menu to match the paper loaded in the tray. Is the tray set to the type, texture, and weight of the paper loaded?	Go to step 4.	Specify the paper type, texture, and weight from the tray settings to match the paper loaded in the tray.
Step 4 **a** Depending on your operating system, specify the paper type, texture, and weight from Printing Preferences or from the Print dialog. **b** Resend the print job. Is the print still too light?	Go to step 5.	The problem is solved.
Step 5 Make sure that the paper has no texture or rough finishes. Are you printing on textured or rough paper?	From the printer control panel, set the paper texture in the Paper menu to match the paper loaded in the tray	Go to step 5.
Step 6 **a** Load paper from a fresh package. **Note:** Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you use it. **b** Resend the print job. Is the print still too light?	Go to step 7.	The problem is solved.
Step 7 Replace the imaging kit, and then resend the print job. Is the print still too light?	Contact **customer support**.	The problem is solved.

Printer is printing blank pages

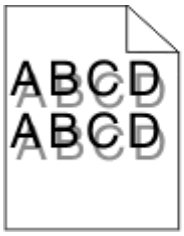


Action	Yes	No
Step 1 **a** Check if there is packing material left on the imaging kit. **1** Remove the imaging kit. **2** Check if the packing material is properly removed from the imaging kit. **Warning—Potential Damage:** Do not expose the imaging kit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems. **Warning—Potential Damage:** Do not touch the underside of the imaging kit. This could damage the imaging kit. **3** Reinstall the imaging kit. **b** Resend the print job. Is the printer still printing blank pages?	Go to step 2.	The problem is solved.
Step 2 Replace the imaging kit, and then resend the print job. Is the printer still printing blank pages?	Contact **customer support**.	The problem is solved.

Printer is printing solid black pages

Action	Yes	No
Step 1 **a** Remove, and then reinstall the imaging kit. **Warning—Potential Damage:** Do not expose the imaging kit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems. **Warning—Potential Damage:** Do not touch the underside of the imaging kit. This could damage the imaging kit. **b** Resend the print job. Is the printer printing solid black pages?	Go to step 2.	The problem is solved.
Step 2 Replace the imaging kit, and then resend the print job. Is the printer printing solid black pages?	Contact **customer support**.	The problem is solved.

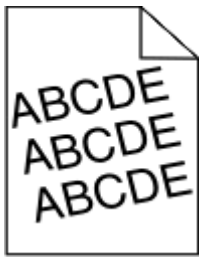
Shadow images appear on prints



Action	Yes	No
Step 1 Check if the paper loaded in the tray has the correct paper type and weight. Is paper with the correct paper type and weight loaded in the tray?	Go to step 2.	Load paper with the correct paper type and weight in the tray.
Step 2 From the printer control panel, set the paper type and weight in the Paper menu to match the paper loaded in the tray. Do the printer settings match the type and weight of the paper loaded?	Go to step 3.	Change the paper type and weight to match the paper loaded in the tray.
Step 3 **a** Depending on your operating system, specify the paper type and weight from Printing Preferences or from the Print dialog. **b** Resend the print job. Do shadow images still appear on prints?	Go to step 4.	The problem is solved.

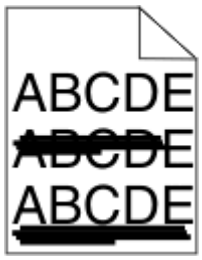
Action	Yes	No
Step 4 Replace the imaging kit, and then resend the print job. Do shadow images still appear on prints?	Contact **customer support**.	The problem is solved.

Skewed print



Action	Yes	No
Step 1 **a** Move the width and length guides in the tray to the correct positions for the size of the paper loaded. **b** Resend the print job. Is the print still skewed?	Go to step 2.	The problem is solved.
Step 2 **a** Check if you are printing on a paper that is supported by the tray. **b** Resend the print job. Is the print still skewed?	Contact **customer support**.	The problem is solved.

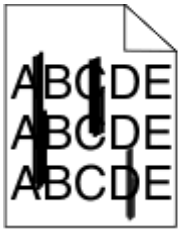
Streaked horizontal lines appear on prints

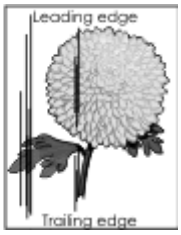


Action	Yes	No
Step 1 **a** Depending on your operating system, specify the tray or feeder from Printing Preferences or the Print dialog. **b** Resend the print job. Do streaked horizontal lines appear on prints?	Go to step 2.	The problem is solved.

Action	Yes	No
Step 2 From the printer control panel, set the paper type and weight in the Paper menu to match the paper loaded in the tray. Do the paper type and weight match the paper in the tray?	Go to step 3.	Do one or more of the following: • Specify the paper type and weight from the tray settings to match the paper loaded in the tray. • Change the paper loaded in the tray to match the paper type and weight specified in the tray settings.
Step 3 **a** Load paper from a fresh package. **Note:** Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you use it. **b** Resend the print job. Do streaked horizontal lines appear on prints?	Go to step 4.	The problem is solved.
Step 4 **a** Remove, and then reinstall the imaging kit. **Warning—Potential Damage:** Do not expose the imaging kit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems. **Warning—Potential Damage:** Do not touch the underside of the imaging kit. This could damage the imaging kit. **b** Resend the print job. Do streaked horizontal lines appear on prints?	Go to step 5.	The problem is solved.
Step 5 Replace the imaging kit, and then resend the print job. Do streaked horizontal lines appear on prints?	Contact **customer support**.	The problem is solved.

Streaked vertical lines appear on prints



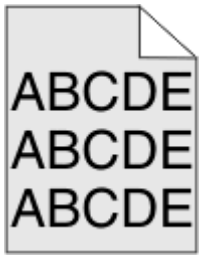


Action	Yes	No
Step 1 **a** Depending on your operating system, specify the paper type, texture, and weight from Printing Preferences or from the Print dialog. **b** Resend the print job. Do streaked vertical lines appear on prints?	Go to step 2.	The problem is solved.
Step 2 From the printer control panel, set the paper texture, type, and weight in the Paper menu to match the paper loaded in the tray. Do the paper texture, type, and weight match the paper in the tray?	Go to step 3.	Do one or more of the following: • Specify the paper texture, type, and weight from the tray settings to match the paper loaded in the tray. • Change the paper loaded in the tray to match the paper size specified in the tray settings.
Step 3 **a** Load paper from a fresh package. **Note:** Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you use it. **b** Resend the print job. Do streaked vertical lines appear on prints?	Go to step 4.	The problem is solved.
Step 4 **a** Remove, and then reinstall the imaging kit. **Warning—Potential Damage:** Do not expose the imaging kit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems. **Warning—Potential Damage:** Do not touch the underside of the imaging kit. This could damage the imaging kit. **b** Resend the print job. Do streaked vertical lines appear on prints?	Go to step 5.	The problem is solved.
Step 5 Replace the imaging kit, and then resend the print job. Do streaked vertical lines appear on prints?	Contact **customer support**.	The problem is solved.

Transparency print quality is poor

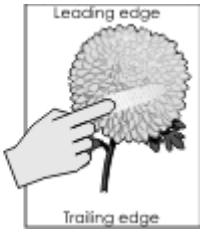
Action	Yes	No
Step 1 From the printer control panel, set the paper type in the Paper menu to match the paper loaded in the tray. Is the paper type for the tray set to Transparency?	Go to step 2.	Set the paper type to Transparency.
Step 2 **a** Check if you are using a recommended type of transparency. **b** Resend the print job. Is the print quality still poor?	Contact **customer support**.	The problem is solved.

Toner fog or background shading appears on prints



Action	Yes	No
Step 1 **a** Remove, and then reinstall the imaging kit. **Warning—Potential Damage:** Do not expose the imaging kit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems. **Warning—Potential Damage:** Do not touch the underside of the imaging kit. This could damage the imaging kit. **b** Resend the print job. Does fog or shading disappear from the prints?	The problem is solved.	Go to step 2.
Step 2 Replace the imaging kit, and then resend the print job. Does fog or shading disappear from the prints?	The problem is solved.	Contact **customer support** or your service representative.

Toner rubs off



Action	Yes	No
Step 1 From the Paper menu on the printer control panel, check the paper type, texture, and weight. Do the paper type, texture, and weight match the paper loaded in the tray?	Go to step 2.	Specify the paper type, texture, and weight from the tray settings to match the paper loaded in the tray.
Step 2 Resend the print job. Does the toner still rub off?	Contact customer support or your service representative.	The problem is solved.

Toner specks appear on prints

Action	Yes	No
Replace the imaging kit, and then resend the print job. Do toner specks appear on prints?	Contact **customer support**.	The problem is solved.

Uneven print density

Action	Yes	No
Replace the imaging kit, and then resend the print job. Is the print density uneven?	Contact **customer support**.	The problem is solved.

Vertical voids appear on prints

Action	Yes	No
Step 1 **a** Check if your software program is using a correct fill pattern. **b** Resend the print job. Do vertical voids appear on prints?	Go to step 2.	The problem is solved.
Step 2 **a** From the Paper Menu on the printer control panel, check the paper type and paper weight. **b** Resend the print job. Do vertical voids appear on prints?	Go to step 3.	The problem is solved.
Step 3 Check if you are using a recommended type of paper. **a** Load paper source with a recommended type of paper. **b** Resend the print job. Do vertical voids appear on prints?	Go to step 4.	The problem is solved.
Step 4 **a** Remove, and then reinstall the imaging kit. **Warning—Potential Damage:** Do not expose the imaging kit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems. **Warning—Potential Damage:** Do not touch the underside of the imaging kit. This could damage the imaging kit. **b** Resend the print job. Do vertical voids appear on prints?	Go to step 5.	The problem is solved.
Step 5 Replace the imaging kit, and then resend the print job. Do vertical voids appear on prints?	Contact **customer support**.	The problem is solved.

Color quality problems

FAQ about color printing

What is RGB color?

Red, green, and blue light can be added together in various amounts to produce a large range of colors observed in nature. For example, red and green can be combined to create yellow. Televisions and computer monitors create colors in this manner. RGB color is a method of describing colors by indicating the amount of red, green, or blue needed to produce a certain color.

What is CMYK color?

Cyan, magenta, yellow, and black inks or toners can be printed in various amounts to produce a large range of colors observed in nature. For example, cyan and yellow can be combined to create green. Printing presses, inkjet printers, and color laser printers create colors in this manner. CMYK color is a method of describing colors by indicating the amount of cyan, magenta, yellow, and black needed to reproduce a particular color.

How is color specified in a document to be printed?

Software programs typically specify the document color using RGB or CMYK color combinations. Additionally, they let users modify the color of each object in a document. For more information, see the help information of your operating system.

How does the printer know what color to print?

When a user prints a document, information describing the type and color of each object is sent to the printer. The color information is passed through color conversion tables that translate the color into the appropriate amounts of cyan, magenta, yellow, and black toner needed to produce the color you want. The object information determines the application of color conversion tables. For example, it is possible to apply one type of color conversion table to text while applying a different color conversion table to photographic images.

What is manual color correction?

When manual color correction is enabled, the printer employs user-selected color conversion tables to process objects. However, Color Correction must be set to Manual, or no user-defined color conversion will be implemented. Manual color correction settings are specific to the type of object being printed (text, graphics, or images), and how the color of the object is specified in the software program (RGB or CMYK combinations).

Notes:

- Manual color correction is not useful if the software program does not specify colors with RGB or CMYK combinations. It is also not effective in situations in which the software program or the computer operating system controls the adjustment of colors.
- When **Auto Color Correction** is selected, the color conversion tables will generate preferred colors used for the majority of the documents.

To manually apply a different color conversion table, do the following:

1. From the Quality menu on the printer control panel, select **Color Correction**, and then select **Manual**.
2. From the Quality menu on the printer control panel, select **Manual Color**, and then select the appropriate color conversion table for the affected object type.

Object type	Color conversion tables
RGB Image RGB Text RGB Graphics	• **Vivid**—Produces brighter, more saturated colors and may be applied to all incoming color formats. • **sRGB Display**—Produces an output that approximates the colors displayed on a computer monitor. **Note:** Black toner usage is optimized for printing photographs. • **Display-True Black**—Produces an output that approximates the colors displayed on a computer monitor. This uses only black toner to create all levels of neutral gray. • **sRGB Vivid**—Provides an increased color saturation for the sRGB Display color correction. **Note:** Black toner usage is optimized for printing business graphics. • **Off**—No color correction is implemented.
CMYK Image CMYK Text CMYK Graphics	• **US CMYK**—Applies color correction to approximate the SWOP (Specifications for Web Offset Publishing) color output. • **Euro CMYK**—Applies color correction to approximate Euroscale color output. • **Vivid CMYK**—Increases the color saturation of the US CMYK color correction setting. • **Off**—No color correction is implemented.

How can I match a particular color (such as a corporate logo)?

Nine types of Color Samples sets are available from the Quality menu on the printer control panel. These are also available from the Color Samples page of the Embedded Web Server. Selecting any sample set generates a multiple-page printout consisting of hundreds of colored boxes. Either a CMYK or RGB combination is located on each box, depending on the table selected. The observed color of each box is obtained by passing the CMYK or RGB combination labeled on the box through the selected color conversion table.

By examining Color Samples sets, you can identify the box whose color is the closest to the color you want. The color combination labeled on the box can then be used for modifying the color of the object in a software program. For more information, see the help information of your operating system.

Note: Manual color correction may be necessary to utilize the selected color conversion table for the particular object.

Selecting which Color Samples set to use for a particular color-matching problem depends on the Color Correction setting being used , the type of object being printed, and how the color of the object is specified in the software program. When Color Correction is set to Off, the color is based on the print job information, and no color conversion is implemented.

Note: The Color Samples pages are not useful if the software program does not specify colors with RGB or CMYK combinations. Additionally, certain situations exist in which the software program or the computer operating system adjusts the RGB or CMYK combinations specified in the program through color management. The resulting printed color may not be an exact match of the Color Samples pages.

What are detailed color samples and how do I access them?

Detailed color samples sets are available only through the Embedded Web Server of a network printer. A detailed Color Samples set contains a range of shades that are similar to a user-defined RGB or CMYK value. The likeness of the colors in the set is dependent on the value entered in the RGB or CMYK Increment box.

To access a detailed Color Samples set from the Embedded Web Server, do the following:

1 Open a Web browser, and then type the printer IP address in the address field.

Note: If you do not know the IP address or printer name, then you can:

- View the information on the printer home screen, or in the TCP/IP section in the Networks/Ports menu.
- Print a network setup page or menu settings page, and then locate the information in the TCP/IP section.

2 Click **Configuration** > **Color Samples** > **Detailed Options**.

3 Select a color conversion table.

4 Enter the RGB or CMYK color number.

5 Enter an increment value from 1 to 255.

Note: The closer the value is to 1, the narrower the color sample range will appear.

6 Click **Print**.

Prints on color transparencies appear dark when projected

Note: This problem occurs when projecting transparencies with reflective overhead projectors. To obtain the highest projected color quality, transmissive overhead projectors are recommended.

Action	Yes	No
Step 1 From the printer control panel, make sure the paper type setting is set to Transparency. Is the paper type setting correct?	Go to step 2.	Set the paper type to Transparency.
Step 2 Reduce the toner darkness, and then resend the print job. Does the print on the color transparency look lighter?	The problem is solved.	Go to step 3.
Step 3 Make sure you are using a recommended type of color transparency, and then resend the print job. Does the print on the color transparency look lighter?	The problem is solved.	Contact **customer support**.

The color of the print does not match the color of the original file

Note: The color conversion tables used in Auto Color Correction mode generally approximate the colors of a standard computer monitor. However, because of technology differences that exist between printers and monitors, there are many colors that can also be affected by monitor variations and lighting conditions.

Action	Yes	No
Step 1 **a** Set Color Correction to Off. **Note:** When the printer color correction is disabled, the color is based on the print job information, and no color conversion is implemented. **b** Resend the print job. Does the color of the print match the color of the file on the computer screen?	The problem is solved.	Go to step 2.
Step 2 From the Quality menu on the printer control panel, do the following: **a** Select **Color Correction**, and then select **Manual**. **b** Select **Manual Color**, and then select the appropriate color conversion table for the affected object type. **c** Resend the print job. Does the color of the print match the color of the file on the computer screen?	The problem is solved.	Contact **customer support**.

The print appears tinted

Action	Yes	No
Adjust the color balance. **a** From the Color Balance menu on the printer control panel, increase or decrease the values for cyan, magenta, yellow, and black. **b** Resend the print job. Does the print still appear tinted?	The problem is solved.	Contact **customer support**.

Embedded Web Server does not open

Action	Yes	No
Step 1 **a** Turn on the printer. **b** Open a Web browser, and then type the printer IP address. **c** Press **Enter**. Does the Embedded Web Server open?	The problem is solved.	Go to step 2.

Action	Yes	No
Step 2 Make sure the printer IP address is correct. **a** View the printer IP address: • From the TCP/IP section in the Network/Ports menu • By printing a network setup page or menu settings page, and then finding the TCP/IP section **Note:** An IP address appears as four sets of numbers separated by periods, such as 123.123.123.123. **b** Open a Web browser, and then type the IP address. **Note:** Depending on the network settings, you may need to type "**`https://`**" instead of "**`http://`**" before the printer IP address to access the Embedded Web Server. **c** Press **Enter**. Does the Embedded Web Server open?	The problem is solved.	Go to step 3.
Step 3 Check if the network is working. **a** Print a network setup page. **b** Check the first section of the network setup page and confirm that the status is Connected. **Note:** If the status is Not Connected, then the connection may be intermittent, or the network cable may be defective. Contact your system support person for a solution, and then print another network setup page. **c** Open a Web browser, and then type the printer IP address. **d** Press **Enter**. Does the Embedded Web Server open?	The problem is solved.	Go to step 4.
Step 4 Check if the cable connections to the printer and print server are secure. **a** Connect the cables properly. For more information, see the setup documentation that came with the printer. **b** Open a Web browser, and then type the printer IP address. **c** Press **Enter**. Does the Embedded Web Server open?	The problem is solved.	Go to step 5.
Step 5 Temporarily disable the Web proxy servers. Proxy servers may block or restrict you from accessing certain Web sites including the Embedded Web Server. Does the Embedded Web Server open?	The problem is solved.	Contact your system support person.

Contacting customer support

When you contact customer support, you will need to be able to describe the problem you are experiencing, the message on the printer display, and the troubleshooting steps you have already taken to find a solution.

You need to know your printer model type and serial number. For more information, see the label at the back of the printer. The serial number is also listed on the menu settings page.

For customer support, contact the place where you purchased your printer.

Notices

Product information

Product name:

Color Laser Printer

Machine type:

5027

Model(s):

630 and its equivalent model

Edition notice

September 2014

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Federal Communications Commission (FCC) compliance information statement

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The FCC Class B limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause

harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult your point of purchase or service representative for additional suggestions.

The manufacturer is not responsible for radio or television interference caused by using other than recommended cables or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate this equipment.

Note: To assure compliance with FCC regulations on electromagnetic interference for a Class B computing device, use a properly shielded and grounded cable such as Lexmark part number 1021231 for parallel attach or 1021294 for USB attach. Use of a substitute cable not properly shielded and grounded may result in a violation of FCC regulations.

Any questions regarding this compliance information statement should be directed to:

Director of Lexmark Technology & Services
Lexmark International, Inc.
740 West New Circle Road
Lexington, KY 40550
(859) 232–3000

Licensing notices

All licensing notices associated with this product can be viewed from the root directory of the installation software CD.

Noise emission levels

The following measurements were made in accordance with ISO 7779 and reported in conformance with ISO 9296.

Note: Some modes may not apply to your product.

1-meter average sound pressure, dBA	
Printing	50
Ready	16

Waste from Electrical and Electronic Equipment (WEEE) directive

The WEEE logo signifies specific recycling programs and procedures for electronic products in countries of the European Union. We encourage the recycling of our products.

India E-Waste notice

This product complies with the India E-Waste (Management and Handling) Rules, 2011, which prohibit use of lead, mercury, hexavalent chromium, polybrominated biphenyls, or polybrominated diphenyl ethers in concentrations exceeding 0.1% by weight and 0.01% by weight for cadmium, except for the exemption set in Schedule II of the Rules.

Product disposal

Do not dispose of the printer or supplies in the same manner as normal household waste. Consult your local authorities for disposal and recycling options.

Static sensitivity notice

This symbol identifies static-sensitive parts. Do not touch in the areas near these symbols without first touching the metal frame of the printer.

Temperature information

Ambient operating temperature	15.6 to 32.2°C (60 to 90°F)
Shipping temperature	-40 to 43.3°C (-40 to 110°F)
Storage temperature and relative humidity	1 to 35°C (34 to 95°F) 8 to 80% RH

Información de la energía de México

Consumo de energía en operación:

540 Wh

Consumo de energía en modo de espera:

0.2 Wh

Cantidad de producto por unidad de energía consumida:

2.78 páginas / Wh

Laser notice

The printer is certified in the U.S. to conform to the requirements of DHHS 21 CFR, Chapter I, Subchapter J for Class I (1) laser products, and elsewhere is certified as a Class I laser product conforming to the requirements of IEC 60825-1.

Class I laser products are not considered to be hazardous. The printer contains internally a Class IIIb (3b) laser that is nominally a 7 milliwatt gallium arsenide laser operating in the wavelength of 655-675 nanometers. The laser system and printer are designed so there is never any human access to laser radiation above a Class I level during normal operation, user maintenance, or prescribed service condition.

Laser advisory label

A laser notice label may be affixed to this printer as shown:

DANGER - Invisible laser radiation when cartridges are removed and interlock defeated. Avoid exposure to laser beam.
PERIGO - Radiação a laser invisível será liberada se os cartuchos forem removidos e o lacre rompido. Evite a exposição aos feixes de laser.
Opasnost - Nevidljivo lasersko zračenje kada su kasete uklonjene i poništena sigurnosna veza. Izbjegavati izlaganje zracima.
NEBEZPEČÍ - Když jsou vyjmuty kazety a je odblokována pojistka, ze zařízení je vysíláno neviditelné laserové záření. Nevystavujte se působení laserového paprsku.
FARE - Usynlig laserstråling, når patroner fjernes, og spærreanordningen er slået fra. Undgå at blive udsat for laserstrålen.
GEVAAR - Onzichtbare laserstraling wanneer cartridges worden verwijderd en een vergrendeling wordt genegeerd. Voorkom blootstelling aan de laser.
DANGER - Rayonnements laser invisibles lors du retrait des cartouches et du déverrouillage des loquets. Eviter toute exposition au rayon laser.
VAARA - Näkymätöntä lasersäteilyä on varottava, kun värikasetit on poistettu ja lukitus on auki. Vältä lasersäteelle altistumista.
GEFAHR - Unsichtbare Laserstrahlung beim Herausnehmen von Druckkassetten und offener Sicherheitssperre. Laserstrahl meiden.
ΚΙΝΔΥΝΟΣ - Έκλυση αόρατης ακτινοβολίας laser κατά την αφαίρεση των κασετών και την απασφάλιση της μανδάλωσης. Αποφεύγετε την έκθεση στην ακτινοβολία laser.
VESZÉLY – Nem látható lézersugárzás fordulhat elő a patronok eltávolításakor és a zárószerkezet felbontásakor. Kerülje a lézersugárnak való kitettséget.
PERICOLO - Emissione di radiazioni laser invisibili durante la rimozione delle cartucce e del blocco. Evitare l´esposizione al raggio laser.
FARE – Usynlig laserstråling når kassettene tas ut og sperren er satt ut av spill. Unngå eksponering for laserstrålen.
NIEBEZPIECZEŃSTWO - niewidzialne promieniowanie laserowe podczas usuwania kaset i blokady. Należy unikać naświetlenia promieniem lasera.
ОПАСНО! Невидимое лазерное излучение при извлеченных картриджах и снятии блокировки. Избегайте воздействия лазерных лучей.
Pozor – Nebezpečenstvo neviditeľného laserového žiarenia pri odobratých kazetách a odblokovanej poistke. Nevystavujte sa lúčom.
PELIGRO: Se producen radiaciones láser invisibles al extraer los cartuchos con el interbloqueo desactivado. Evite la exposición al haz de láser.
FARA – Osynlig laserstrålning när patroner tas ur och spärrmekanismen är upphävd. Undvik exponering för laserstrålen.
危**险** - 当移除碳粉盒及互**锁**失效**时**会**产**生看不**见**的激光**辐**射，**请**避免暴露在激光光束下。
危險 - 移除碳粉匣與安全連續開關失效時會**產**生看不見的雷射輻射。請避免曝露在雷射光束下。
危険 - カートリッジが取り外され、内部ロックが無効になると、見えないレーザー光が放射されます。 このレーザー光に当たらないようにしてください。

Power consumption

Product power consumption

The following table documents the power consumption characteristics of the product.

Note: Some modes may not apply to your product.

Mode	Description	Power consumption (Watts)
Printing	The product is generating hard-copy output from electronic inputs.	580 (one-sided); 360 (two-sided)
Copy	The product is generating hard-copy output from hard-copy original documents.	N/A
Scan	The product is scanning hard-copy documents.	N/A

Mode	Description	Power consumption (Watts)
Ready	The product is waiting for a print job.	30
Sleep Mode	The product is in a high-level energy-saving mode.	3
Hibernate	The product is in a low-level energy-saving mode.	0.5
Off	The product is plugged into an electrical outlet, but the power switch is turned off.	0

The power consumption levels listed in the previous table represent time-averaged measurements. Instantaneous power draws may be substantially higher than the average.

Sleep Mode

This product is designed with an energy-saving mode called *Sleep Mode*. The Sleep Mode saves energy by lowering power consumption during extended periods of inactivity. The Sleep Mode is automatically engaged after this product is not used for a specified period of time, called the *Sleep Mode Timeout*.

Factory default Sleep Mode Timeout for this product (in minutes):	20

By using the configuration menus, the Sleep Mode Timeout can be modified between 1 minute and 120 minutes. Setting the Sleep Mode Timeout to a low value reduces energy consumption, but may increase the response time of the product. Setting the Sleep Mode Timeout to a high value maintains a fast response, but uses more energy.

Off mode

If this product has an off mode which still consumes a small amount of power, then to completely stop product power consumption, disconnect the power supply cord from the electrical outlet.

Total energy usage

It is sometimes helpful to calculate the total product energy usage. Since power consumption claims are provided in power units of Watts, the power consumption should be multiplied by the time the product spends in each mode in order to calculate energy usage. The total product energy usage is the sum of each mode's energy usage.

Industry Canada compliance statement

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Standard ICES-003.

Avis de conformité aux normes de l’industrie du Canada

Cet appareil numérique de classe B est conforme aux exigences de la norme canadienne relative aux équipements pouvant causer des interférences NMB-003.

日本の VCCI 規定

製品にこのマークが表示されている場合、次の要件を満たしています。

この装置は、クラス B 情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをしてください。
VCCI-B

European Community (EC) directives conformity

This product is in conformity with the protection requirements of EC Council directives 2004/108/EC, 2006/95/EC, 2009/125/EC, and 2011/65/EU on the approximation and harmonization of the laws of the Member States relating to electromagnetic compatibility, safety of electrical equipment designed for use within certain voltage limits, the ecodesign of energy-related products, and on the restrictions of use of certain hazardous substances in electrical and electronic equipment.

A declaration of conformity to the requirements of the Directives is available upon request from: Lexmark International Technology Hungária Kft., 8 Lechner Ödön fasor, Millennium Tower III, 1095 Budapest HUNGARY.

This product satisfies the Class B limits of EN 55022 and safety requirements of EN 60950-1.

Regulatory notices for wireless products

This section contains the following regulatory information pertaining to wireless products that contain transmitters, for example, but not limited to, wireless network cards or proximity card readers.

Modular component notice

Wireless-equipped models contain the following modular component(s):

Regulatory Type-Model LEX-M01-005; FCC ID:IYLLEXM01005; IC:2376A-M01005

Exposure to radio frequency radiation

The radiated output power of this device is far below the radio frequency exposure limits of the FCC and other regulatory agencies. A minimum separation of 20 cm (8 inches) must be maintained between the antenna and any persons for this device to satisfy the RF exposure requirements of the FCC and other regulatory agencies.

Industry Canada (Canada)

This device complies with Industry Canada specification RSS-210. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This device has been designed to operate only with the antenna provided. Use of any other antenna is strictly prohibited per regulations of Industry Canada.

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF fields in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's Web site www.hc-sc.gc.ca/rpb.

The term "IC:" before the certification/registration number only signifies that the Industry Canada technical specifications were met.

Industry Canada (Canada)

Cet appareil est conforme à la norme RSS-210 d'Industry Canada. Son fonctionnement est soumis aux deux conditions suivantes :

(1) cet appareil ne doit pas provoquer d'interférences et (2) il doit accepter toute interférence reçue, y compris celles risquant d'altérer son fonctionnement.

Cet appareil a été conçu pour fonctionner uniquement avec l'antenne fournie. L'utilisation de toute autre antenne est strictement interdite par la réglementation d'Industry Canada.

En application des réglementations d'Industry Canada, l'utilisation d'une antenne de gain supérieur est strictement interdite.

Pour empêcher toute interférence radio au service faisant l'objet d'une licence, cet appareil doit être utilisé à l'intérieur et loin des fenêtres afin de garantir une protection optimale.

Si le matériel (ou son antenne d'émission) est installé à l'extérieur, il doit faire l'objet d'une licence.

L'installateur de cet équipement radio doit veiller à ce que l'antenne soit implantée et dirigée de manière à n'émettre aucun champ HF dépassant les limites fixées pour l'ensemble de la population par Santé Canada. Reportez-vous au Code de sécurité 6 que vous pouvez consulter sur le site Web de Santé Canada www.hc-sc.gc.ca/rpb.

Le terme « IC » précédant le numéro de d'accréditation/inscription signifie simplement que le produit est conforme aux spécifications techniques d'Industry Canada.

Notice to users in the European Union

This product is in conformity with the protection requirements of EC Council directives 2004/108/EC, 2006/95/EC, 1999/5/EC, 2009/125/EC, and 2011/65/EU on the approximation and harmonization of the laws of the Member States relating to electromagnetic compatibility, safety of electrical equipment designed for use within certain voltage limits, radio equipment and telecommunications terminal equipment, the ecodesign of energy-related products, and on the restrictions of use of certain hazardous substances in electrical and electronic equipment.

Compliance is indicated by the CE marking.

A declaration of conformity to the requirements of the Directives is available upon request from: Lexmark International Technology Hungária Kft., 8 Lechner Ödön fasor, Millennium Tower III, 1095 Budapest HUNGARY.

This product satisfies the Class B limits of EN 55022 and safety requirements of EN 60950-1.

Products equipped with 2.4GHz Wireless LAN option are in conformity with the protection requirements of EC Council directives 2004/108/EC, 2006/95/EC, 1999/5/EC, 2009/125/EC, and 2011/65/EU on the approximation and harmonization of the laws of the Member States relating to electromagnetic compatibility, safety of electrical equipment designed for use within certain voltage limits, radio equipment and telecommunications terminal equipment, the ecodesign of energy-related products, and on the restrictions of use of certain hazardous substances in electrical and electronic equipment.

Compliance is indicated by the CE marking.

Operation is allowed in all EU and EFTA countries, but is restricted to indoor use only.

A declaration of conformity to the requirements of the Directives is available upon request from: Lexmark International Technology Hungária Kft., 8 Lechner Ödön fasor, Millennium Tower III, 1095 Budapest HUNGARY.

This product may be used in the countries indicated in the table below.

AT	BE	BG	CH	CY	CZ	DE	DK	EE
EL	ES	FI	FR	HR	HU	IE	IS	IT
LI	LT	LU	LV	MT	NL	NO	PL	PT
RO	SE	SI	SK	TR	UK			

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Español	Por medio de la presente, Lexmark International, Inc. declara que este producto cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
Eesti	Käesolevaga kinnitab Lexmark International, Inc., et seade see toode vastab direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele muudele asjakohastele sätetele.
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Íslenska	Hér með lýsir Lexmark International, Inc. yfir því að þessi vara er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC.
Italiano	Con la presente Lexmark International, Inc. dichiara che questo questo prodotto è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
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